CD Car Radio 22DC942 / 62

Service
Service
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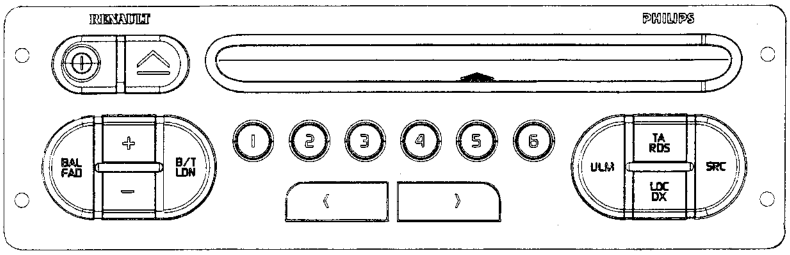

For repair information of the CDM9 mechanism, see Service Manual of CDM9 MOD-4 4822 725 23506.

Service Manual

12 V

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CLASS 1
LASER PRODUCT

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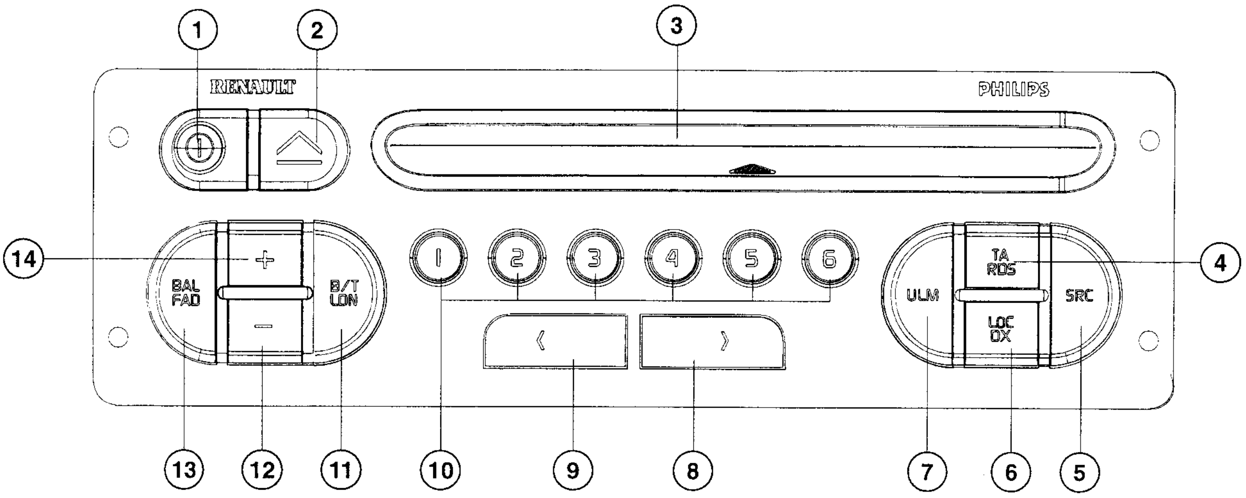
PCS 89 814

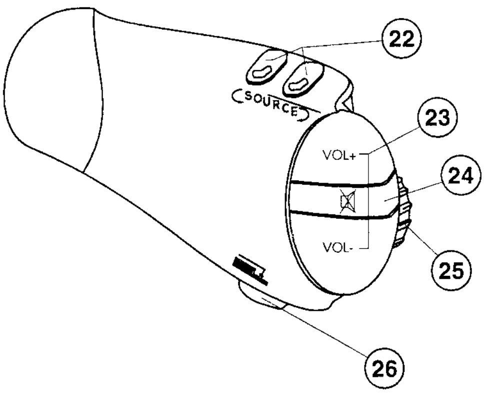
PHILIPS

Front


1
2
3
RENAULT
PHILIPS
14
+
BAL
FAD
−
B/T
LDN
1
2
3
4
5
6
‹
›
ULM
TA
RDS
LOC
DX
SRC
4
13
12
11
10
9
8
7
6
5

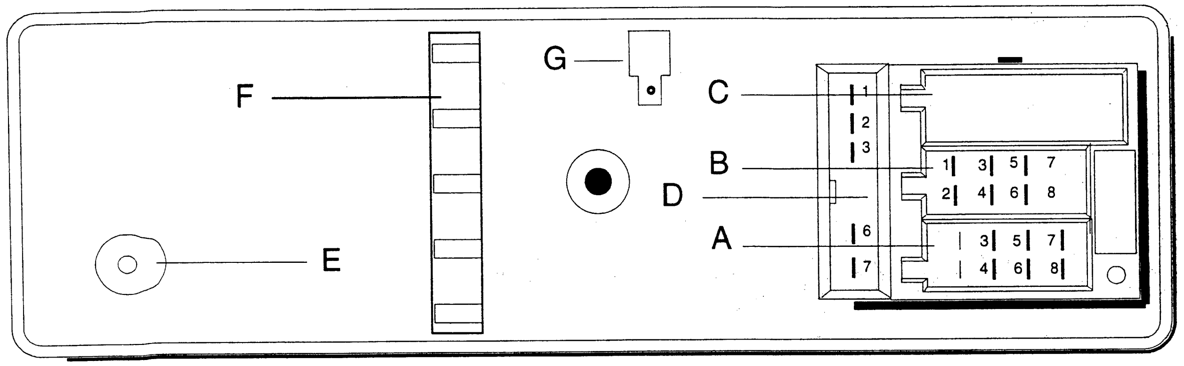
1	**ON / OFF**
2	**DISK EJECT**
3	**DISK OPENING**
4	**TRAFFIC ANNOUNCEMENT / RDS**
5	**SOURCE**
6	**DX MODE / LOCAL MODE**
7	**BAND**
8	**SEARCH UP**
9	**SEARCH DOWN**
10	**PRESETS 1 to 6**
11	**BASS / TREBLE / LOUDNESS**
12	**VOL -**
13	**BALANCE / FADER**
14	**VOL +**

Remote control


22
SOURCE
23
VOL+
24
VOL-
25
26

22	Change waveband/source	
23	Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated	
24	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	All others modes: Mute / Demute
25	In code entry mode: Selection digits Sec Code	Changing preset / Track selection
26	In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code	In radio mode: SP : search UP LP : Starts Autostore

SP : Short press LP : Long press (>2s)


F
G
C
B
D
A
E
1
2
3
1 3 5 7
2 4 6 8
6
7
3 5 7
4 6 8

POS	FUNCTION		
A1		D1	Data I2C
A2		D2	Clock I2C
A3	Mute radio (0V)	D3	Mrq I2C
A4	Plus permanent	D4	
A5	+ Antenna	D5	
A6	Pilot light	D6	+ antenna
A7	Plus accessories	D7	GND
A8	GND		
		E	AERIAL PLUG
B1	Rear right +		
B2	Rear right -	F	Fastening cable
B3	Front right +		
B4	Front right -		
B5	Front left +		
B6	Front left -		
B7	Rear left +		
B8	Rear left -		

TECHNICAL DATA

GENERAL

Power supply :14.4V DC
Dimensions :182x165x53 mm
Security code : Yes
Remote control : Yes
Remote display : Yes

RADIO

LW : 153-279 KHz
MW : 531-1602 KHz
FM : 87.5-108 MHz
IF-AM (1/2) : 10.7 MHz/450 KHz
IF-FM (1/2) : 72.2 MHz/10.7 MHz
Sensivity 26dB S/N : <45 µV (LW)
: <45 µV (MW)
: <8 µV (FM)
Limitation α-3dB : 3µV<L<14µV

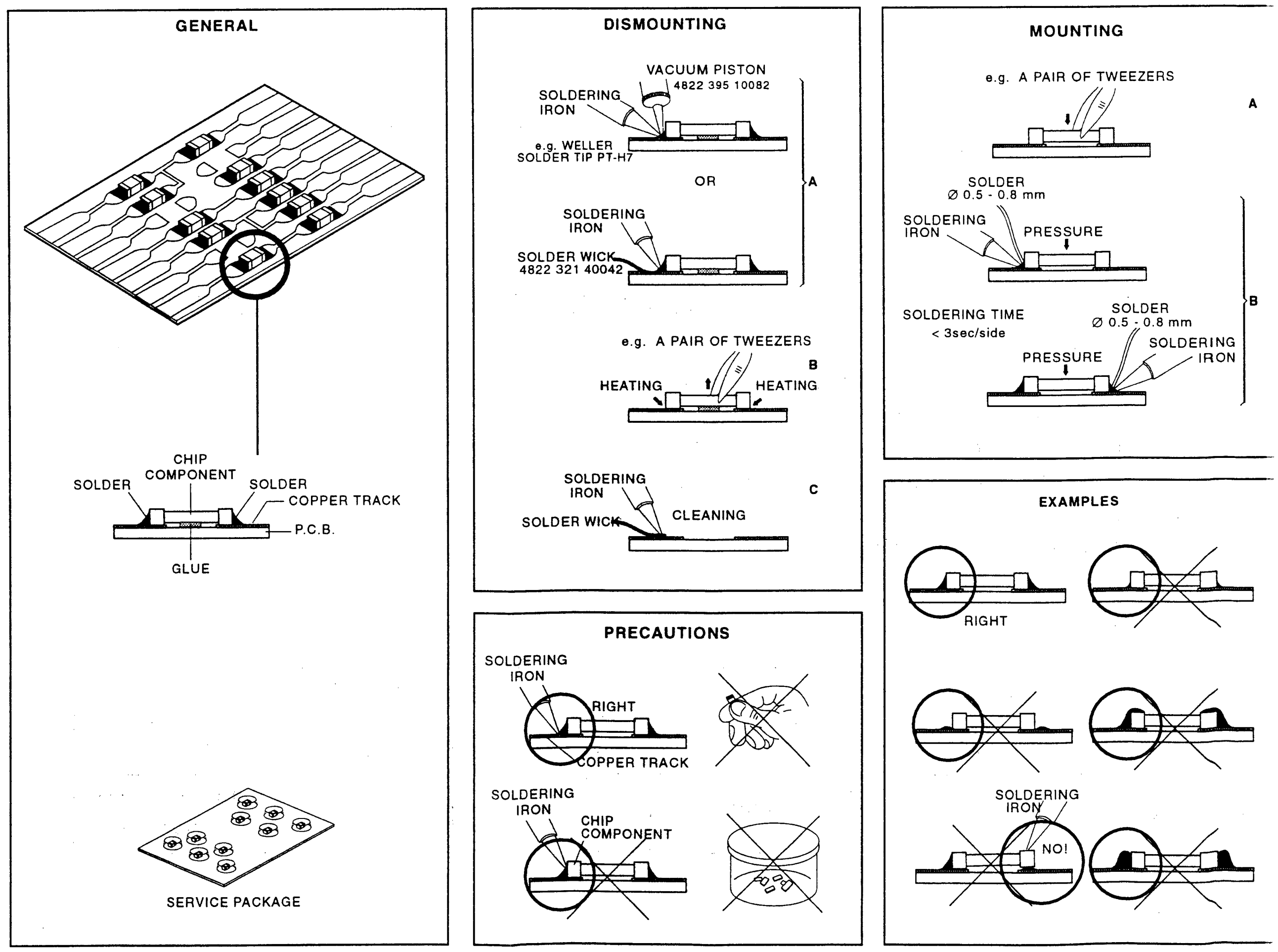
CASSETTE

CD mechanism : CDM9
SNR : >70dB
THD : <0.5% at 1KHz
Channel crosstalk : >30dB at 1KHz

AMPLIFIER

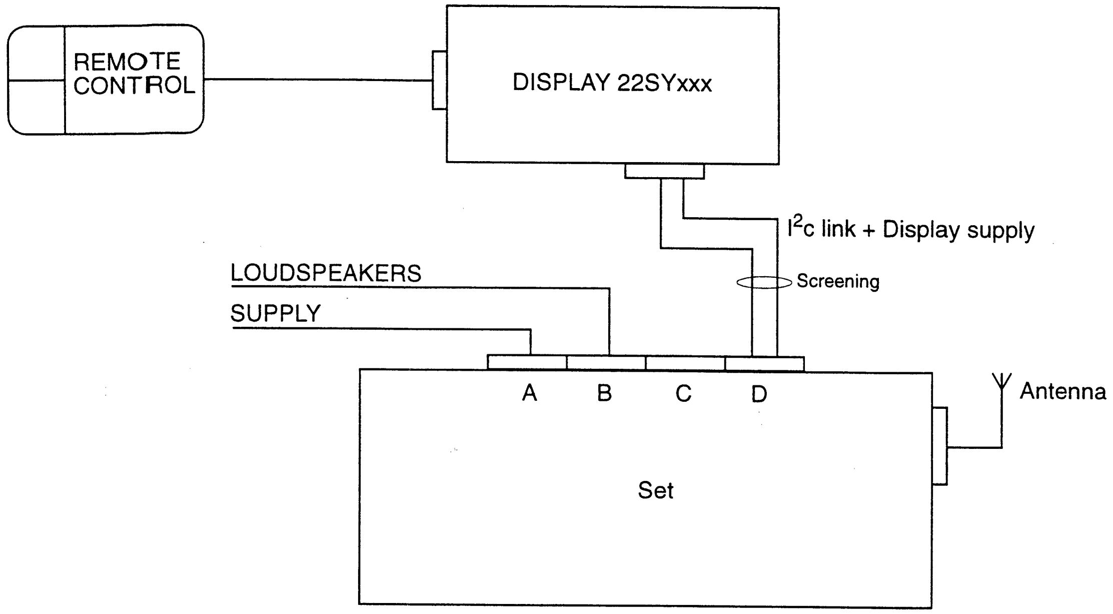
Output power : 4x15 W / 4 Ω (THD = 10%)
Fader control : 30 dB ± 2 dB
Balance control : 30 dB ± 2 dB
Source separation : >60 dB

HANDLING CHIP COMPONENTS


GENERAL
CHIP COMPONENT
SOLDER
SOLDER
COPPER TRACK
P.C.B.
GLUE
SERVICE PACKAGE
DISMOUNTING
VACUUM PISTON 4822 395 10082
SOLDERING IRON
e.g. WELLER SOLDER TIP PT-H7
OR
A
SOLDERING IRON
SOLDER WICK 4822 321 40042
e.g. A PAIR OF TWEEZERS
B
HEATING
HEATING
SOLDERING IRON
C
SOLDER WICK
CLEANING
MOUNTING
e.g. A PAIR OF TWEEZERS
A
SOLDER Ø 0.5 - 0.8 mm
SOLDERING IRON
PRESSURE
SOLDERING TIME < 3sec/side
SOLDER Ø 0.5 - 0.8 mm
PRESSURE
SOLDERING IRON
B
PRECAUTIONS
SOLDERING IRON
RIGHT
COPPER TRACK
SOLDERING IRON
CHIP COMPONENT
EXAMPLES
RIGHT
SOLDERING IRON
NO!

These sets are parts of a system, composed of the following parts:
1)- The set 22DC942/62.
2)- A remote control + cable.
3)- A remote display 22SY664, 654, or 656.
4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



This set is protected by a security code. **THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.**

Entering the code:
-) Press the On/Off key to switch on the set. CODE and then 0000 will appear on the display.
-) To select the four digits of the code:
  - Adjust the flashing digit with the thumbwheel on the remote control.
  - Press the [26] key on the remote control to change the digit.
-) Press the [26] key for at least 2 seconds to validate the code.
When the code is activated a bleep will be heard.

Example : you want to enter the code 7637

	Turn the thumbwheel Press [26]	Turn the thumbwheel Press [26]	Turn the thumbwheel Press [26]	Turn the thumbwheel Press [26]	Press [26] for at least 2 seconds
0000	7000	7600	7630	7637	Last heard frequency

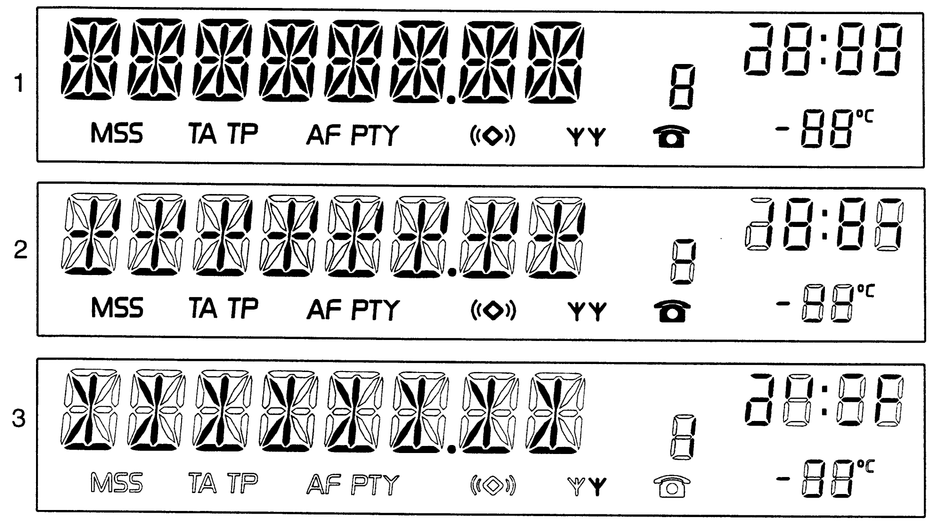
SYSTEM TESTS

WARNING: this test needs a display 22SY656/62B to be completed

1 - Display connection check

Starting the test: supply the display with the 12V acc without radio connected or radio switched off while <Vol+>sat, <Vol->sat and <SOURCE>sat are pressed together.

If there is no problem, the following test will start.
The display shows 3 different screens:



These screens are displayed in sequence each time you press the <26>sat button. It can be aborted by Switching On the set.

2 - Keyboard test

Starting the test: press P3 and ON.

"T" is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 17 keys have been pressed, "TEST OK" message is displayed.
This test can be aborted at any time by switching the set OFF.

number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
key	⏏	BAL FAD	+	-	BAS TRE	Pr 1	Pr 2	Pr 3	Pr 4	Pr 5	Pr 6	ULM	TA	DX	SRC	<	>

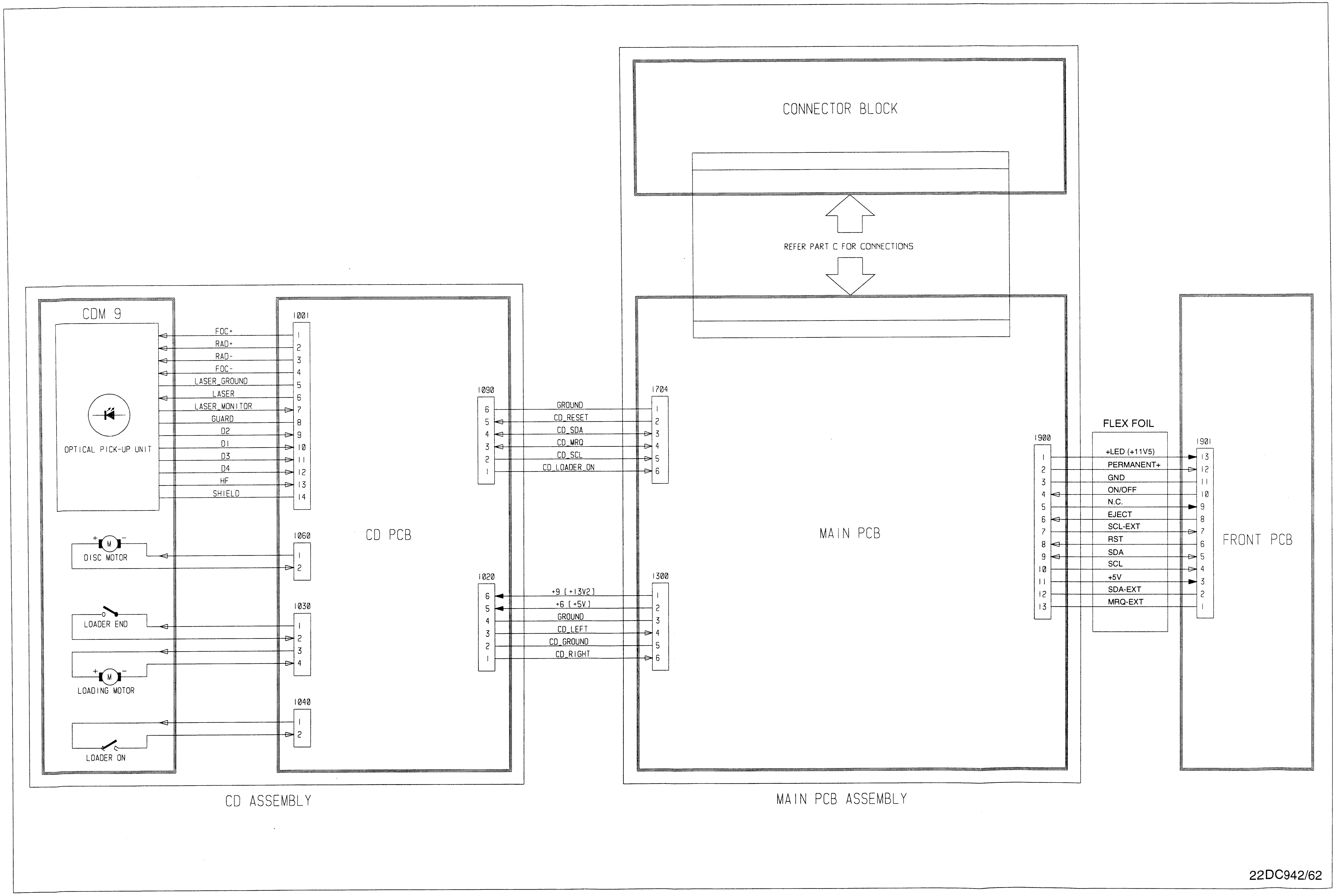
If all is right, thr display shows "KEYS OK"

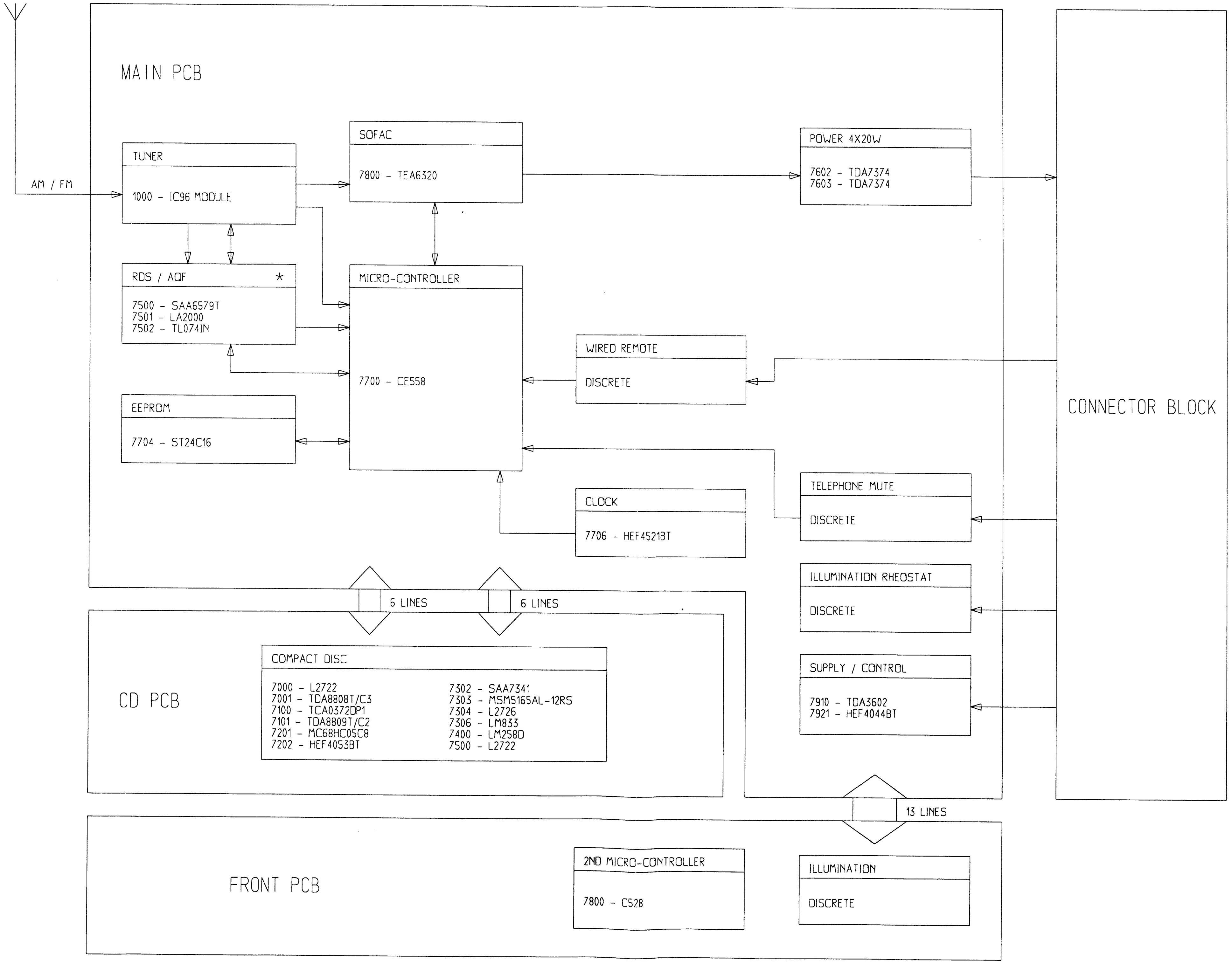
3 - Check sum and Running times (Multiples of ten minutes)

At the end of the keyboard test, press P3 to start this test.
The display will show in order, during 5s each :

1) the checksum of the front microprocessor :	CSF	XXXX (depending on the software release)
2) the checksum of the main microprocessor :	CSM	XXXX (depending on the software release)
3) the running time in tuner mode :	TU	. . . .
4) the running time in cassette mode :	TA	. . . .
5) the running time in Cd changer mode	CDC	. . . .
6) the running time in Traffic Announcement	TR	. . . .
7) the running time in Telephone Call	SP	. . . .
8) the total running time	TOT	. . . .
9) the running time in nominal mode I^2C	NOM	. . . .

These indications are displayed in a loop. To end the test, switch Off the set.


CONNECTOR BLOCK
REFER PART C FOR CONNECTIONS
CDM 9
OPTICAL PICK-UP UNIT
1001
FOC+
RAD+
RAD-
FOC-
LASER_GROUND
LASER
LASER_MONITOR
GUARD
D2
D1
D3
D4
HF
SHIELD
DISC MOTOR
M
1060
LOADER END
LOADING MOTOR
1030
LOADER ON
1040
CD PCB
1090
1020
GROUND
CD_RESET
CD_SDA
CD_MRQ
CD_SCL
CD_LOADER_ON
1704
+9 [+13V2]
+6 [+5V]
GROUND
CD_LEFT
CD_GROUND
CD_RIGHT
1300
MAIN PCB
1900
FLEX FOIL
+LED (+11V5)
PERMANENT+
GND
ON/OFF
N.C.
EJECT
SCL-EXT
RST
SDA
SCL
+5V
SDA-EXT
MRQ-EXT
1901
FRONT PCB
CD ASSEMBLY
MAIN PCB ASSEMBLY
22DC942/62


MAIN PCB
AM / FM
TUNER
1000 - IC96 MODULE
SOFAC
7800 - TEA6320
POWER 4X20W
7602 - TDA7374
7603 - TDA7374
RDS / AQF *
7500 - SAA6579T
7501 - LA2000
7502 - TL074IN
MICRO-CONTROLLER
7700 - CE558
EEPROM
7704 - ST24C16
WIRED REMOTE
DISCRETE
CONNECTOR BLOCK
TELEPHONE MUTE
DISCRETE
CLOCK
7706 - HEF4521BT
ILLUMINATION RHEOSTAT
DISCRETE
6 LINES
6 LINES
SUPPLY / CONTROL
7910 - TDA3602
7921 - HEF4044BT
CD PCB
COMPACT DISC
7000 - L2722
7001 - TDA8808T/C3
7100 - TCA0372DP1
7101 - TDA8809T/C2
7201 - MC68HC05C8
7202 - HEF4053BT
7302 - SAA7341
7303 - MSM5165AL-12RS
7304 - L2726
7306 - LM833
7400 - LM258D
7500 - L2722
13 LINES
FRONT PCB
2ND MICRO-CONTROLLER
7800 - C528
ILLUMINATION
DISCRETE

22DC942/62

DC VOLTAGES

All measurements in FM, set tuned, 0dB at output.
All settings in mid position. Values are given for indication only.

IC96 TUNER MODULE

1 = 0.5 V
2 = GND
3 = N.C.
4 = N.C.
5 = N.C.
6 = 5.0 V
7 = 8.5 V
8 = GND
9 = 5.0 V
10 = 5.1 V

11 = 3.2 V
12 = 5.0 V
13 = 5.0 V
14 = 5.0 V
15 = N.C.
16 = 3.8 V
17 = 3.8 V
18 = 0.0 V
19 = N.C.
20 = N.C.

7501 LA2000

1 = 1.8 V
2 = 8.0 V
3 = 2.1 V
4 = N.C.
5 = GND

6 = 5.0 V
7 = N.C.
8 = N.C.
9 = 8.5 V

7800 TEA6320

1 = 5.0 V
2 = GND
3 = 3.6 V
4 = 3.9 V
5 = 3.9 V
6 = 3.9 V
7 = 3.9 V
8 = 3.5 V
9 = 3.8 V
10 = 3.7 V
11 = N.C.
12 = 7.6 V
13 = 4.4 V
14 = 3.8 V
15 = 3.9 V
16 = N.C.

17 = 3.7 V
18 = 3.9 V
19 = 7.6 V
20 = N.C.
21 = 3.9 V
22 = N.C.
23 = 3.7 V
24 = 3.8 V
25 = 3.5 V
26 = 3.9 V
27 = 3.9 V
28 = 3.9 V
29 = 3.9 V
30 = 3.9 V
31 = 7.6 V
32 = 5.0 V

7500 SAA6579T

1 = N.C.
2 = 5.0 V
3 = 3.0 V
4 = 2.5 V
5 = 4.9 V
6 = GND
7 = 2.3 V
8 = 2.5 V

9 = GND
10 = GND
11 = GND
12 = 5.0 V
13 = 5.0V
14 = 2.5V
15 = N.C.
16 = 5.0 V

7502 TL074

1 = 4.2 V
2 = 4.2 V
3 = 4.1 V
4 = 8.6 V
5 = 4.1 V
6 = 4.3 V
7 = 4.2 V

8 = 4.2 V
9 = 4.3 V
10 = 4.1 V
11 = GND
12 = 4.2 V
13 = 4.2 V
14 = 4.2 V

7602 - 7603 TDA7374

1 = 7.0 V
2 = 7.0 V
3 = 13.3 V
4 = 0.7 V
5 = 0.7 V
6 = 10.7 V
7 = 4.1 V
8 = Earth

9 = GND
10 = 0.0 V
11 =0.7 V
12 =0.7 V
13 = 10.7 V
14 = 7.0 V
15 = 7.0 V

7704 ST24C16

1 = 5.0 V
2 = 5.0 V
3 = 5.0 V
4 = GND

5 = 5.0 V SDA
6 = 5.0 V SCL
7 = GND
8 = 5.0 V

7706 HEF4521

1 = N.C.
2 = GND
3 = 5.0V
4 = 5.0 V
5 = 10.0 V
6 = 5.0 V
7 = N.C.
8 = GND

9 = GND
10 = N.C.
11 = N.C.
12 = N.C.
13 = N.C.
14 = 5.0 V
15 = N.C.
16 = 5.0 V

7910 TDA3602

1 = 12.5 V
2 = 8.5 V
3 = N.C.
4 = 0.6 V
5 = 5.0 V

6 = GND
7 = 5.0 V
8 = 12.3 V
9 = 5.0 V

7921 HEF 4044BT

1 = 5.0 V
2 = N.C.
3 = 5.0 V
4 = 5.0 V
5 = 5.0 V
6 = 4.0 V
7 = 5.0 V
8 =GND

9 = 5.0 V
10 = 5.0 V
11 = 5.0 V
12 = 5.0 V
13 = 0.0 V
14 = 5.0 V
15 = 2.6V
16 = 5.0 V

Checks table

For all measurement, please refer to "General Check & Alignment procedures for Car Systems'
4822 725 25456

Supply voltages

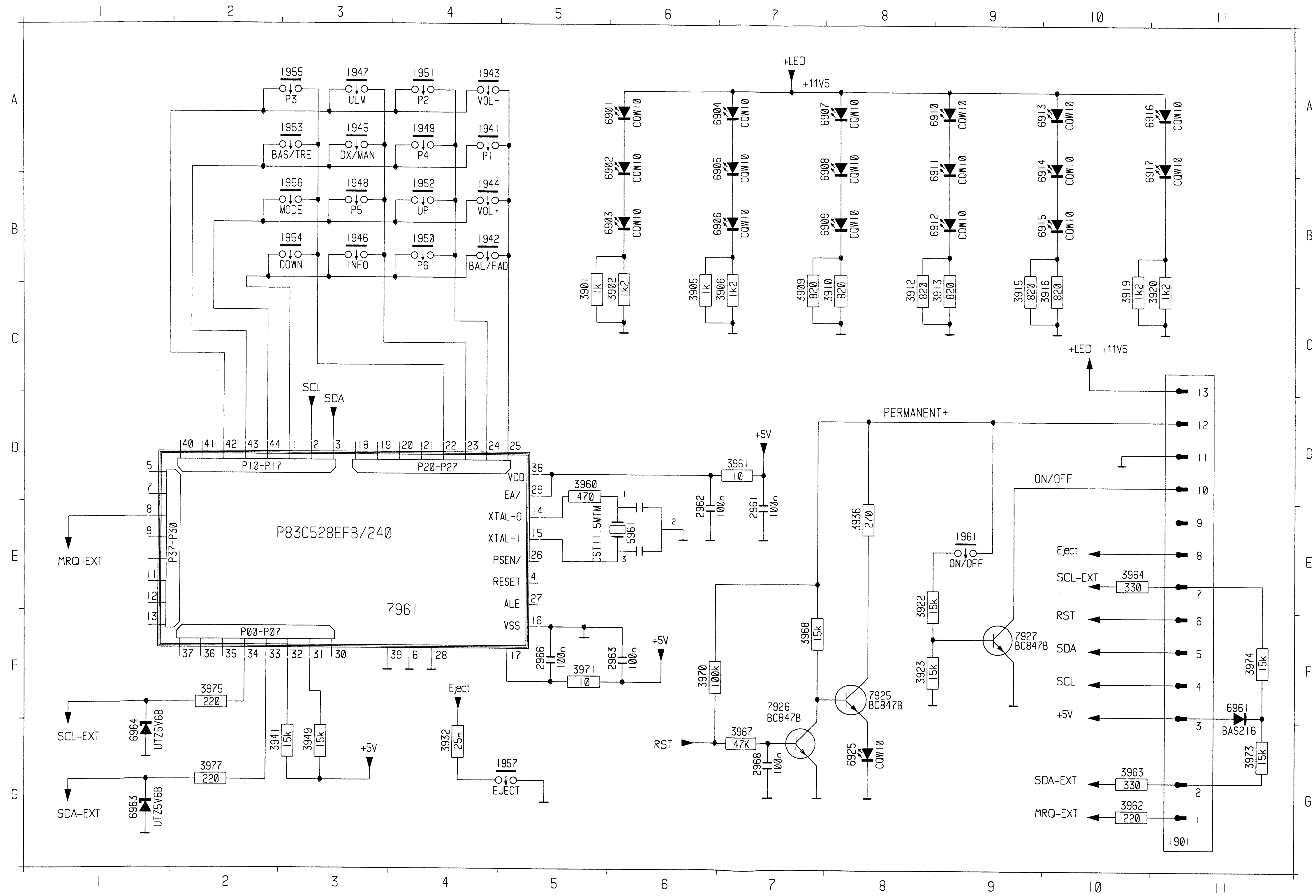
Position	V +1	V +2	V +3	V +4	V +5	V +7	V +9
set switched OFF	min 10.8 max 16.0	0.0 0.2	0.0	5.0	0.6	5.0	min 10.0 max 15.3
Set switched ON	min 10.7 max 15.9	10.6 15.8	8.5	5.0	5.0	5.0	min 9.9 max15.1

Limiting point α-3dB

Range	Input	min	nominal	max
87.5 to 108 MHz	1mV 400Hz	3µV	6µV	14µV

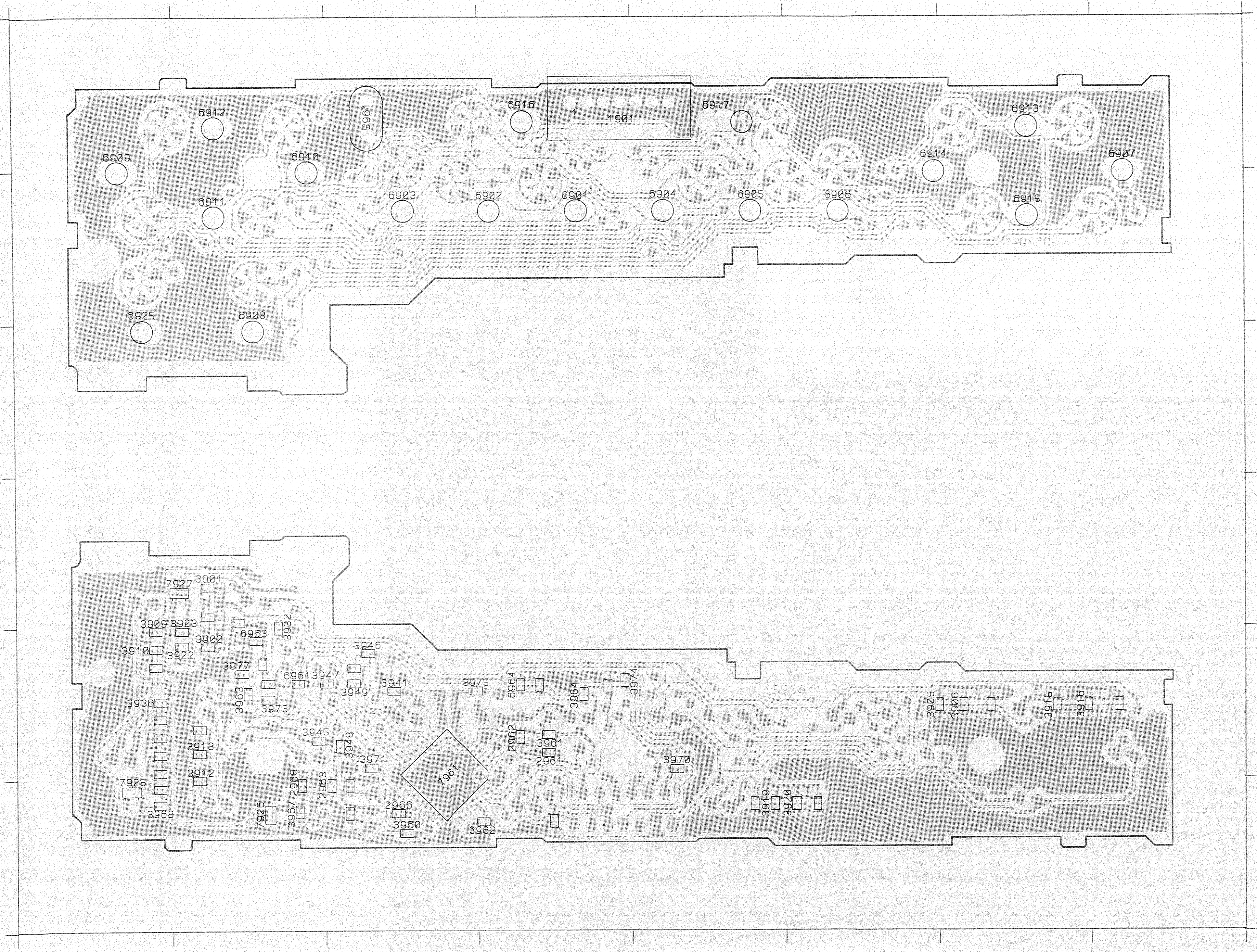
Check	SK	◎→	◇	▭	Setting of controls	⊡
26dB SNR	FM	93 MHz 6 µV Δf=22.5 KHz f mod = 1 KHz	◇B	▭	◢	◇1 0dB (775mV)
		98 MHz 1 mV Δf = 22.5 KHz without mod				◇1 ≥ 26dB
26dB SNR	MW	1053KHz, 150µV 1KHz - 30% AM	◇A	▭	◢	◇1 0dB (775mV)
		1053KHz, 150µV without mod				◇1 ≥ 26dB
26dB SNR	LW	207KHz, 190µV 1KHz - 30% AM	◇A	▭	◢	◇1 0dB (775mV)
		207KHz, 190µV without mod				◇1 ≥ 26dB
26dB SNR	SW	6100KHz, 125µV 1KHz - 30% AM	◇A	▭	◢	◇1 0dB (775mV)
		6100KHz, 125µV without mod				◇1 ≥ 26dB

22DC942/62
FRONT SCHEMATIC DIAGRAM


1 2 3 4 5 6 7 8 9 10 11
A B C D E F G
1955 P3
1947 ULM
1951 P2
1943 VOL-
1953 BAS/TRE
1945 DX/MAN
1949 P4
1941 PI
1956 MODE
1948 P5
1952 UP
1944 VOL+
1954 DOWN
1946 INFO
1950 P6
1942 BAL/FAD
+LED
+11VS
6901 CQW10
6902 CQW10
6903 CQW10
6904 CQW10
6905 CQW10
6906 CQW10
6907 CQW10
6908 CQW10
6909 CQW10
6910 CQW10
6911 CQW10
6912 CQW10
6913 CQW10
6914 CQW10
6915 CQW10
6916 CQW10
6917 CQW10
3901 1k
3902 1k2
3905 1k
3906 1k2
3909 820
3910 820
3912 820
3913 820
3915 820
3916 820
3919 1k2
3920 1k2
SCL
SDA
P10-P17
P20-P27
P37-P30
P00-P07
P83C528EFB/240
7961
VDD
EA/
XTAL-O
XTAL-I
PSEN/
RESET
ALE
VSS
3960 470
CST11.5MTW
5961
3961 10
2962 100n
2961 100n
+5V
2966 100n
3971 10
2963 100n
MRQ-EXT
3975 220
SCL-EXT
6964 UTZ5V6B
3977 220
SDA-EXT
6963 UTZ5V6B
3941 15k
3949 15k
Eject
3932 25m
1957 EJECT
PERMANENT+
3936 270
3968 15k
3970 100k
RST
3967 47K
2968 100n
7926 BC847B
7925 BC847B
6925 CQW10
1961 ON/OFF
3922 15k
3923 15k
7927 BC847B
ON/OFF
Eject
SCL-EXT
3964 330
RST
SDA
SCL
+5V
3974 15k
6961 BAS216
3973 15k
SDA-EXT
3963 330
MRQ-EXT
3962 220
1901
13 12 11 10 9 8 7 6 5 4 3 2 1

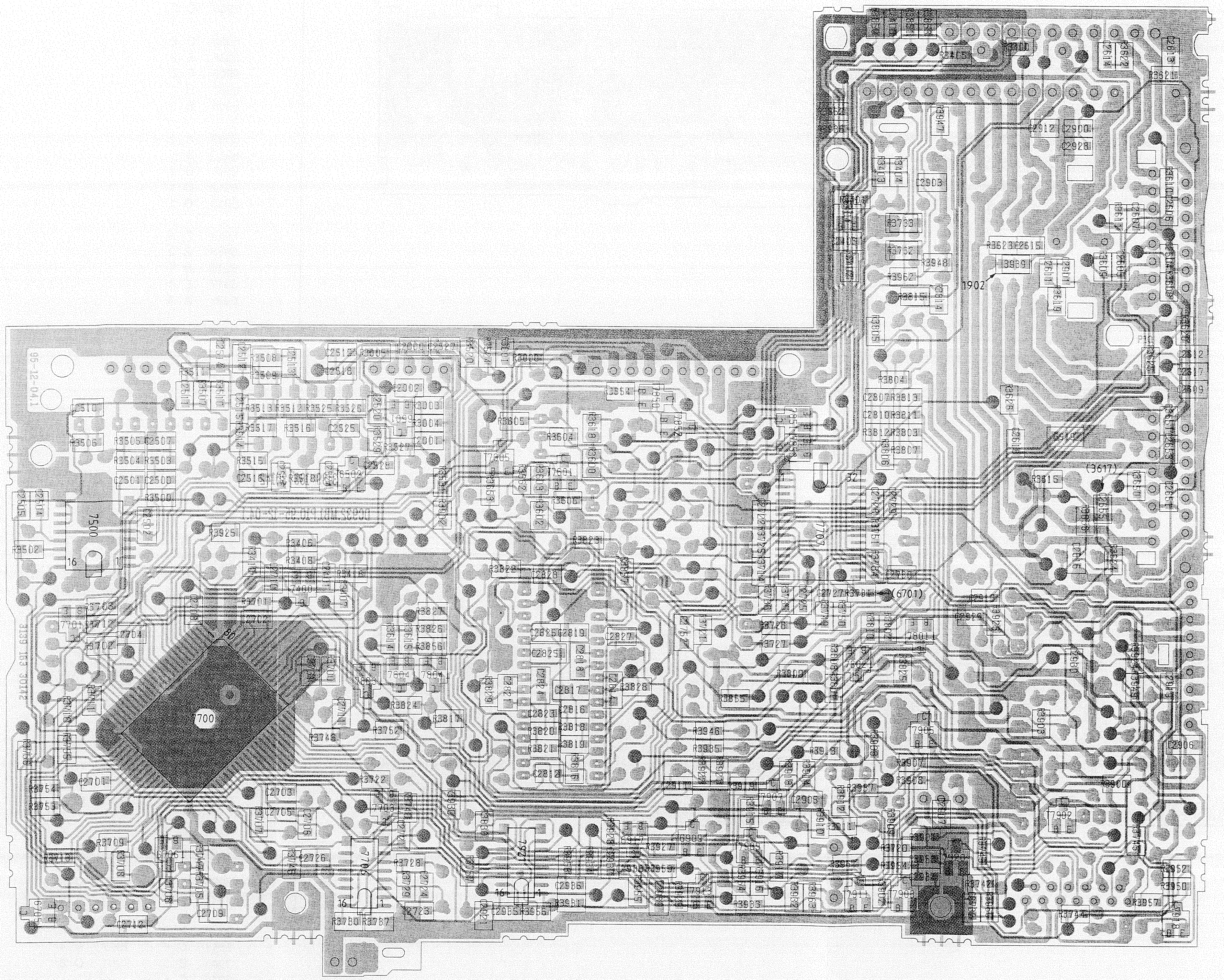
1901	G11	3963	G10
1941	A 4	3964	E10
1942	B 4	3967	G 7
1943	A 4	3968	F 7
1944	B 4	3970	F 6
1945	A 3	3971	F 5
1946	B 3	3973	G11
1947	A 3	3974	F11
1948	B 3	3975	F 2
1949	A 4	3977	G 2
1950	B 4	5961	E 6
1951	A 4	6901	A 6
1952	B 4	6902	A 6
1953	A 3	6903	B 6
1954	B 3	6904	A 7
1955	A 3	6905	A 7
1956	B 3	6906	B 7
1957	G 5	6907	A 8
1961	E 9	6908	A 8
2961	E 7	6909	B 8
2962	E 6	6910	A 9
2963	F 6	6911	A 9
2966	F 5	6912	B 9
2968	G 7	6913	A10
3901	C 5	6914	A10
3902	C 6	6915	B10
3905	C 6	6916	A11
3906	C 7	6917	A11
3909	C 7	6925	G 8
3910	C 8	6961	F11
3912	C 8	6963	G 1
3913	C 9	6964	G 1
3915	C 9	7925	F 8
3916	C10	7926	F 7
3919	C10	7927	F 9
3920	C11	7961	F 3
3922	E 8		
3923	F 8		
3932	G 4		
3936	E 8		
3941	G 2		
3949	G 3		
3960	D 5		
3961	D 7		
3962	G10		

FRONT PWB LAYOUT


6912
5961
6916
1
1901
6917
6913
6909
6910
6914
6907
6911
6903
6902
6901
6904
6905
6906
6915
36764
6925
6908
7927
3901
3909
3923
3932
3902
6963
3910
3922
3946
3977
6961
3947
3941
3975
6964
3964
3974
3949
3936
3963
3973
3905
3906
3915
3916
3945
3948
2962
3961
3913
3971
2961
3970
3912
7961
7925
2968
2963
3967
2966
3919
3920
3968
7926
3960
3962

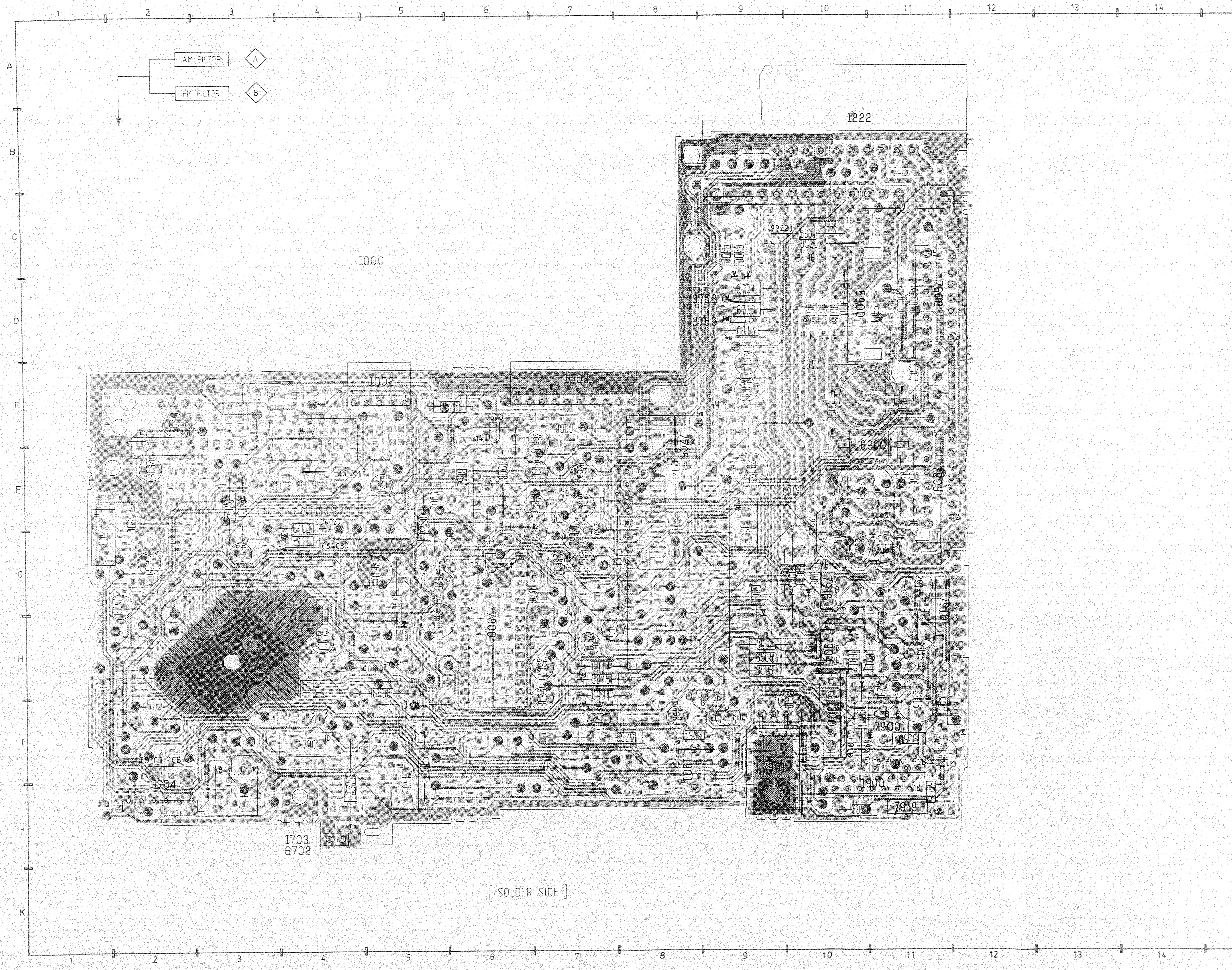
1901	D	1
5961	C	1
6901	D	2
6902	D	2
6903	C	2
6904	E	2
6905	E	2
6906	F	2
6907	H	1
6908	B	3
6909	A	1
6910	B	1
6911	B	2
6912	B	1
6913	G	1
6914	F	1
6915	G	2
6916	D	1
6917	E	1
6925	A	3

2961	D	5
2962	D	5
2963	C	6
2966	C	6
2968	B	6
3901	B	4
3902	B	5
3905	F	5
3906	G	5
3909	A	4
3910	A	5
3912	B	5
3913	B	5
3915	G	5
3916	G	5
3919	E	6
3920	F	6
3922	B	5
3923	B	5
3932	B	5
3936	A	5
3941	C	5
3945	B	5
3946	C	5
3947	B	5
3948	C	5
3949	C	5
3960	C	6
3961	D	5
3962	D	6
3963	B	5
3964	D	5
3967	B	6
3968	A	5
3970	E	5
3971	C	5
3973	B	5
3974	D	5
3975	C	5
3977	B	5
6961	B	5
6963	B	5
6964	D	5
7925	A	5
7926	B	6
7927	B	4
7961	C	6



[SOLDER SIDE]

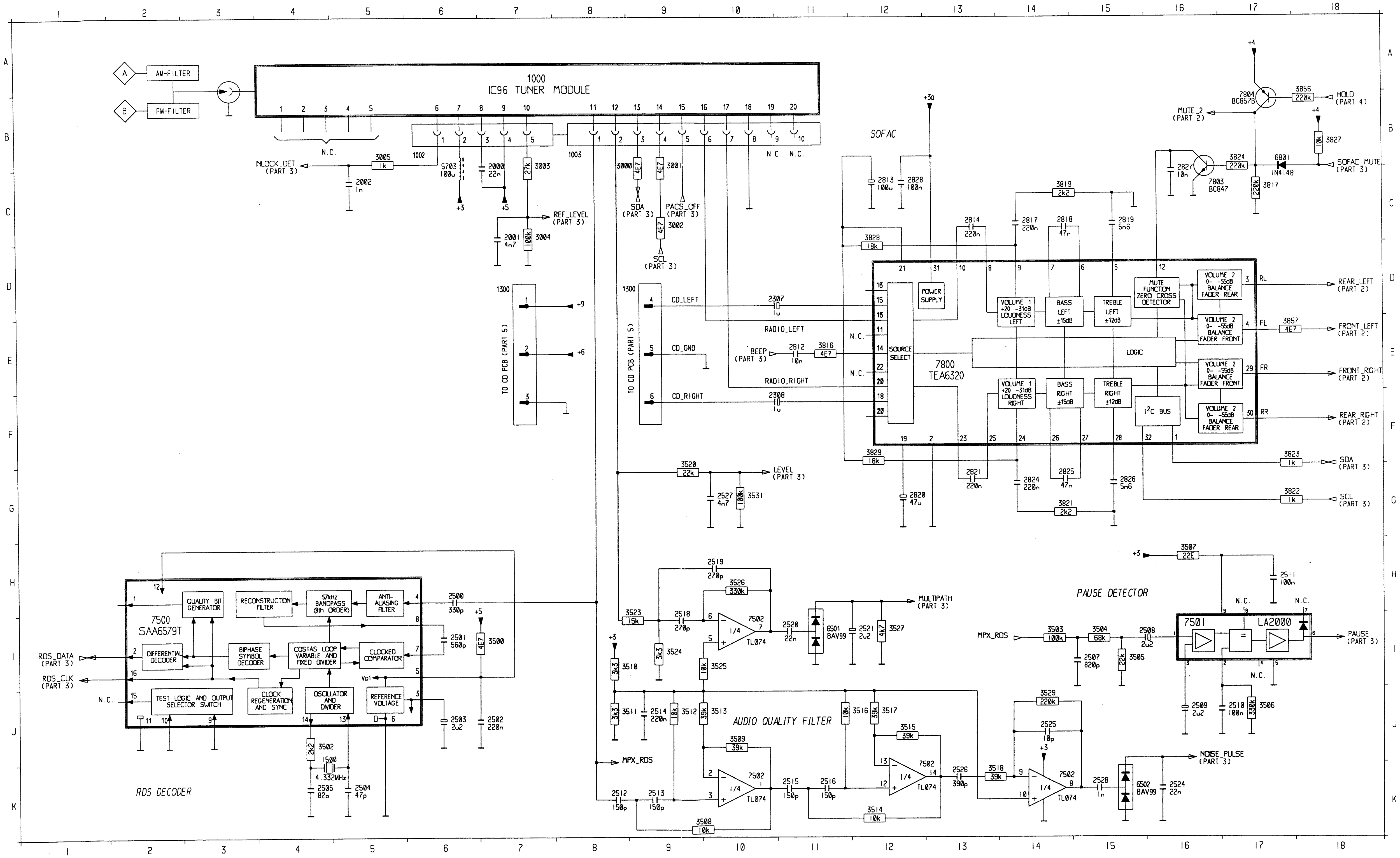
1902	D10	2906	H11	3701	G3	3903	H10
2000	E5	2907	I9	3702	G2	3907	H9
2001	F5	2911	I7	3703	G2	3908	I9
2002	E5	2912	C10	3705	J3	3909	I9
2400	B9	2913	G10	3706	J3	3910	I8
2401	G4	2919	H11	3707	I3	3911	I8
2405	D9	2921	J5	3708	I2	3912	I8
2500	F3	2928	C11	3709	I2	3913	H8
2501	F2	2929	G10	3710	H2	3914	I8
2502	F2	2930	H10	3711	H2	3915	I8
2504	F1	2934	I9	3712	G2	3916	I8
2505	F1	2935	J6	3713	I2	3917	I8
2507	F3	2936	J6	3714	G8	3918	I8
2510	E2	2937	I6	3720	I9	3919	I8
2511	E3	2938	I7	3721	G7	3921	I7
2512	E3	2939	J7	3722	I4	3922	I7
2513	E4	3000	E6	3725	G8	3923	G10
2514	E3	3001	E6	3726	G8	3924	H11
2515	E3	3002	F5	3727	G8	3925	F3
2516	F3	3003	E5	3728	I5	3927	I7
2518	E4	3004	E5	3729	J5	3928	I6
2519	E4	3005	E4	3730	J4	3929	J7
2520	E4	3400	B10	3731	G9	3930	I5
2524	F4	3401	D9	3732	D9	3931	J6
2525	F4	3402	D9	3733	D9	3932	J8
2526	F4	3403	C9	3734	G9	3933	J8
2527	E5	3404	C9	3735	G8	3934	I6
2528	F4	3405	B9	3736	G8	3935	H7
2604	D11	3406	G4	3737	J4	3936	C8
2605	D11	3407	G4	3740	I5	3937	I9
2606	D11	3408	G4	3742	J10	3938	H9
2607	D11	3410	G3	3743	I10	3939	D10
2609	E12	3416	G4	3744	J11	3946	H7
2611	D10	3500	F3	3745	I11	3947	C9
2612	E12	3502	G1	3746	I4	3948	D9
2613	B11	3503	F3	3747	I3	3949	H11
2614	B11	3504	F2	3748	H4	3950	J11
2615	D10	3505	F2	3749	G8	3952	I11
2616	G11	3506	F2	3750	G8	3953	I9
2617	E12	3507	E3	3751	F9	3954	I9
2618	F10	3508	E3	3752	H5	3955	J7
2651	F11	3509	E3	3753	I2	3956	J6
2653	F11	3510	E3	3754	I2	3957	J11
2655	F11	3511	E3	3755	H2	3958	I6
2701	I2	3512	E4	3756	H1	3959	I7
2702	G3	3513	E3	3757	I5	3960	J10
2703	I4	3514	F3	3801	H8	3961	I8
2704	G2	3515	F3	3802	G9	3962	D9
2705	I4	3516	F4	3803	F9	3963	J8
2706	I4	3517	F3	3804	E9	3964	I8
2708	G3	3518	F4	3805	E9	6404	D9
2709	J3	3520	E5	3806	F9	6501	E5
2710	G4	3524	E5	3807	F9	6502	F4
2711	H4	3525	E4	3808	H8	6701	G9
2712	J2	3526	E4	3809	H8	6705	J1
2721	I5	3527	F5	3810	G9	6706	I3
2722	F8	3529	F4	3811	E9	6909	I7
2723	J5	3531	F5	3812	F9	6917	I7
2724	J5	3600	F6	3813	E9	6919	F10
2725	G8	3602	F6	3814	D9	7400	G4
2726	I4	3603	F6	3815	D9	7500	F2
2727	G8	3604	F6	3816	I6	7601	F6
2728	F9	3605	E6	3817	H5	7604	H5
2729	F9	3606	F6	3818	H6	7605	F5
2730	G9	3608	D11	3819	H6	7700	H3
2731	H4	3609	D11	3820	H6	7701	G2
2732	J10	3610	C11	3821	H6	7703	I4
2752	G7	3611	D11	3822	G6	7706	I4
2807	E9	3614	G5	3823	G6	7707	F8
2810	E9	3615	G5	3824	H5	7801	G9
2812	I6	3616	F10	3825	H9	7802	H9
2814	H6	3617	F11	3826	G5	7803	H4
2816	H6	3618	F6	3827	G5	7804	H5
2817	H6	3619	D10	3828	H7	7850	E7
2818	H6	3620	E11	3829	H5	7851	E8
2819	G6	3621	B11	3830	I5	7852	E7
2821	H6	3622	B11	3850	B9	7853	F8
2823	H6	3623	D10	3851	B9	7902	I10
2824	H6	3624	G11	3852	C8	7903	J9
2825	H6	3625	E11	3853	B9	7905	H9
2826	G6	3626	E10	3854	E7	7907	I8
2827	G7	3650	F11	3855	H8	7909	I8
2828	G6	3651	E11	3856	G5	7911	J9
2900	C11	3653	F5	3857	G7	7913	J7
2901	D10	3656	F11	3900	I11	7918	J11
2903	C9	3662	F6	3901	I9	7920	I9
2905	I8	3700	H4	3902	J9	7921	I6


AM FILTER
A
FM FILTER
B
1000
1002
1003
1222
3758
3759
7900
7901
7919
1900
1901
1703
6702
1704
TO CD PCB
TO FRONT PCB
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

[SOLDER SIDE]

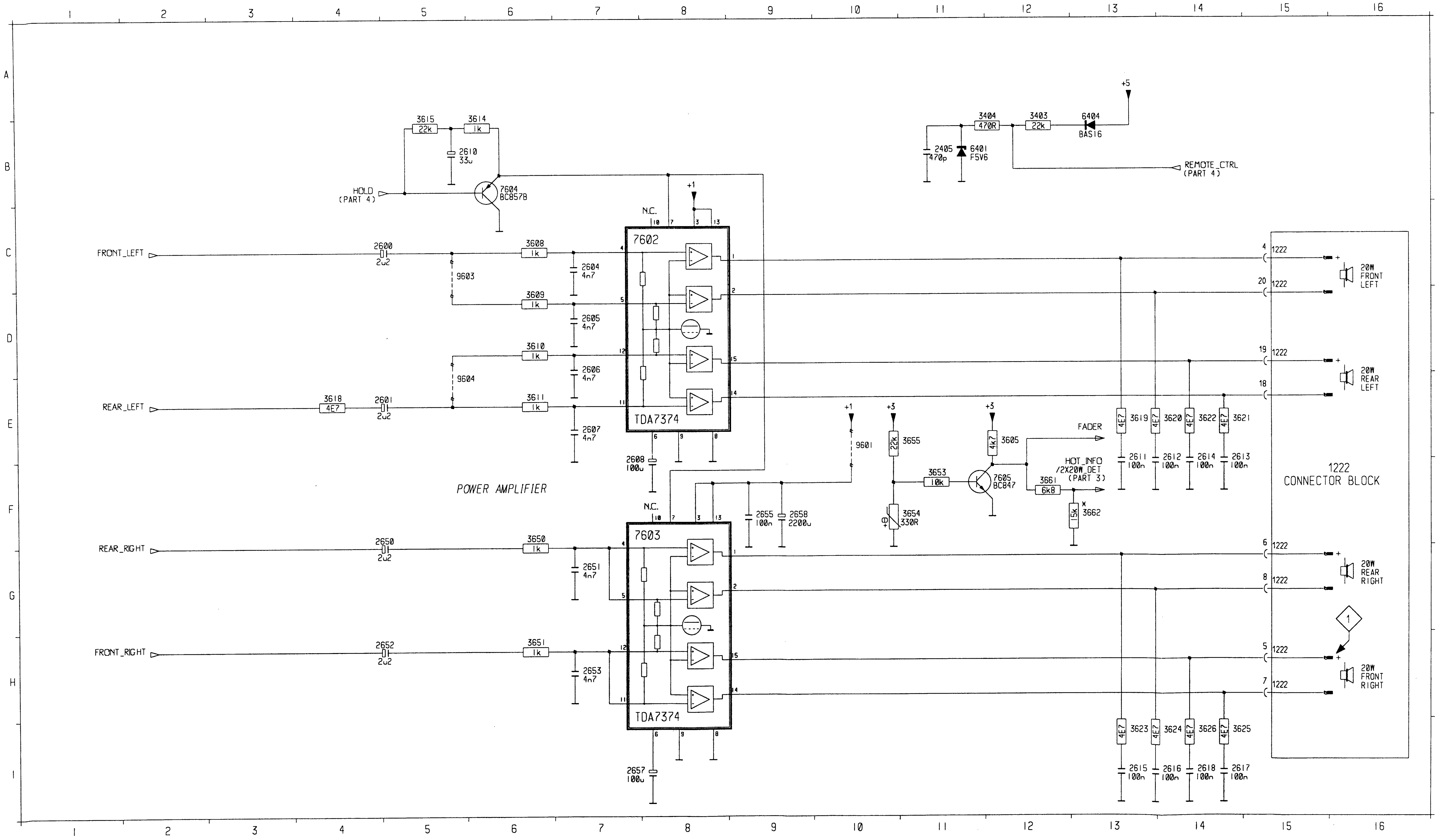
1000	C5
1002	E5
1003	E7
1222	B10
1300	I10
1500	G1
1700	I4
1701	J5
1702	F9
1703	J4
1704	J2
1900	J11
1901	I8
2307	H7
2308	I7
2503	G2
2508	F2
2509	E2
2521	F5
2600	G6
2601	F7
2602	F7
2603	G7
2608	G10
2610	G5
2650	G7
2652	G7
2656	G11
2657	G11
2658	F10
2700	H4
2707	G3
2806	H7
2808	E9
2809	F9
2811	E9
2813	H5
2820	G5
2850	E7
2851	F7
2852	F7
2853	G7
2902	E10
2904	I11
2908	I10
2909	I8
2914	H11
2915	H11
2916	H11
2917	G11
2918	I11
2920	I7
2931	H7
2933	I11
3414	G4
3523	E6
3654	G10
3655	F5
3661	F6
3704	F3
3723	J4
3758	D9
3759	D9
3904	H9
3905	H9
3906	H9
3920	I8
3926	I11
3945	H7
3951	J10
5700	H5
5701	H4
5702	H4
5703	E3
5900	D10
5901	C10
6400	C9
6401	C9
6402	G4
6403	G4
6702	J4
6703	D9
6704	D9
6800	G9
6801	G5
6900	F11
6901	H10
6902	I8
6904	I7
6905	G10
6906	G10
6907	I11
6908	H5
6910	E9
6911	H10
6912	H10
6913	H10
6914	H7
6915	D9
6916	J11
6920	G9
6921	I10
7501	E2
7502	E4
7600	F6
7602	D11
7603	F11
7704	J3
7705	F8
7709	G2
7800	H6
7900	I11
7901	I9
7904	H10
7906	I9
7908	I8
7910	G11
7916	G10
7919	J11
9400	F3
9401	G7
9402	G4
9500	F2
9501	F4
9601	F11
9602	G11
9603	F7
9604	F7
9605	G5
9606	G11
9607	E11
9608	D11
9609	D11
9610	D10
9611	D10
9612	D10
9613	C10
9614	G10
9615	F11
9700	I5
9701	H5
9702	F8
9900	I5
9901	D11
9902	F5
9903	G10
9904	G6
9905	F6
9906	G6
9908	F6
9909	E7
9910	I10
9912	F10
9913	E10
9914	I10
9915	I11
9916	E11
9917	E10
9918	D10
9921	C10
9922	C10
9923	C11
9924	H11
9925	G10
9928	H10

1002	B 6	1300	E 9	2307	D10	2504	K 5	2511	H17	2518	I 9	2526	K13	2817	C14	2825	G14	3002	C 9	3503	I14	3509	J10	3515	J12	3524	I 9	3816	E11	3824	B17	5703	B 6	7502	K10	7804	B17
1003	B 8	1300	F 9	2308	F10	2505	K 4	2512	K 8	2519	H10	2527	G10	2818	C14	2826	G15	3003	B 7	3504	I15	3510	I 9	3516	J12	3525	I10	3817	C17	3827	B18	6501	I11	7502	I10	T039	I 1
1300	D 7	1500	J 4	2500	H 6	2507	I15	2513	K 9	2520	I11	2528	K15	2819	C15	2827	C16	3004	C 7	3505	I15	3511	J 9	3517	J12	3526	H10	3819	C14	3828	C12	6502	K15	7502	K14		
1300	E 7	2000	B 7	2501	I 6	2508	I15	2514	J 9	2521	I12	2812	E11	2820	G12	2828	C12	3005	B 5	3506	J17	3512	J 9	3518	K13	3527	I12	3821	G14	3829	F12	6801	B17	7502	K12		
1300	F 7	2001	C 7	2502	J 7	2509	J16	2515	K11	2524	K16	2813	C12	2821	G13	3000	B 8	3500	I 7	3507	H16	3513	J10	3520	G 9	3529	J14	3822	G17	3856	B18	7500	I 2	7800	E13		
1300	D 8	2002	C 5	2503	J 6	2510	J17	2516	K11	2525	J14	2814	C13	2824	G14	3001	B 9	3502	J 4	3508	K10	3514	K12	3523	I 9	3531	G10	3823	F17	3857	E17	7501	I16	7803	C17		


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
A B C D E F G H I J K
AM-FILTER
FM-FILTER
1000
IC96 TUNER MODULE
N.C.
INLOCK_DET (PART 3)
3005 1k
2002 1n
1002
5703 100u
2000 22n
27k 3003
+3
+5
REF_LEVEL (PART 3)
2001 4n7
100k 3004
1003
3000 4E7
3001 4E7
SDA (PART 3)
PACS_OFF (PART 3)
4E7 3002
SCL (PART 3)
N.C. N.C.
1300
+9
+6
TO CD PCB (PART 5)
CD_LEFT
CD_GND
CD_RIGHT
2307 1u
2308 1u
RADIO_LEFT
RADIO_RIGHT
BEEP (PART 3)
2812 10n
3816 4E7
N.C.
SOFAC
+3a
2813 100u
2828 100n
3819 2k2
2814 220n
2817 220n
2818 47n
2819 5n6
3828 18k
POWER SUPPLY
VOLUME 1 +20 -31dB LOUDNESS LEFT
BASS LEFT ±15dB
TREBLE LEFT ±12dB
MUTE FUNCTION ZERO CROSS DETECTOR
VOLUME 2 0- -55dB BALANCE FADER REAR
VOLUME 2 0- -55dB BALANCE FADER FRONT
SOURCE SELECT
7800 TEA6320
LOGIC
VOLUME 1 +20 -31dB LOUDNESS RIGHT
BASS RIGHT ±15dB
TREBLE RIGHT ±12dB
I²C BUS
RL FL FR RR
3857 4E7
REAR_LEFT (PART 2)
FRONT_LEFT (PART 2)
FRONT_RIGHT (PART 2)
REAR_RIGHT (PART 2)
3829 18k
2820 47u
2821 220n
2824 220n
2825 47n
2826 5n6
3821 2k2
3823 1k
3822 1k
SDA (PART 3)
SCL (PART 3)
+4
7804 BC857B
3856 220k
HOLD (PART 4)
MUTE_2 (PART 2)
10k 3827
2827 10n
7803 BC847
3824 220k
6801 1N4148
SOFAC_MUTE (PART 3)
220k 3817
3520 22k
LEVEL (PART 3)
2527 4n7
100k 3531
7500 SAA6579T
QUALITY BIT GENERATOR
RECONSTRUCTION FILTER
57kHz BANDPASS (8th ORDER)
ANTI-ALIASING FILTER
DIFFERENTIAL DECODER
BIPHASE SYMBOL DECODER
COSTAS LOOP VARIABLE AND FIXED DIVIDER
CLOCKED COMPARATOR
TEST LOGIC AND OUTPUT SELECTOR SWITCH
CLOCK REGENERATION AND SYNC
OSCILLATOR AND DIVIDER
REFERENCE VOLTAGE
Vp1
RDS_DATA (PART 3)
RDS_CLK (PART 3)
N.C.
2500 330p
2501 560p
+5
4E7 3500
2503 2u2
2502 220n
2k2 3502
1500 4.332MHz
2505 82p
2504 47p
RDS DECODER
2519 270p
3526 330k
3523 15k
2518 270p
7502 1/4 TL074
2520 22n
6501 BAV99
2521 2u2
4k7 3527
MULTIPATH (PART 3)
3k3 3524
3k3 3510
10k 3525
3k3 3511
2514 220n
10k 3512
39k 3513
AUDIO QUALITY FILTER
10k 3516
39k 3517
3515 39k
3509 39k
MPX_RDS
2512 150p
2513 150p
3508 10k
2515 150p
2516 150p
3514 10k
2526 390p
3518 39k
3529 220k
2525 10p
2528 1n
6502 BAV99
2524 22n
NOISE_PULSE (PART 3)
PAUSE DETECTOR
3507 22E
2511 100n
7501 LA2000
PAUSE (PART 3)
MPX_RDS
3503 100k
3504 68k
2508 2u2
2507 820p
22k 3505
2509 2u2
2510 100n
330k 3506

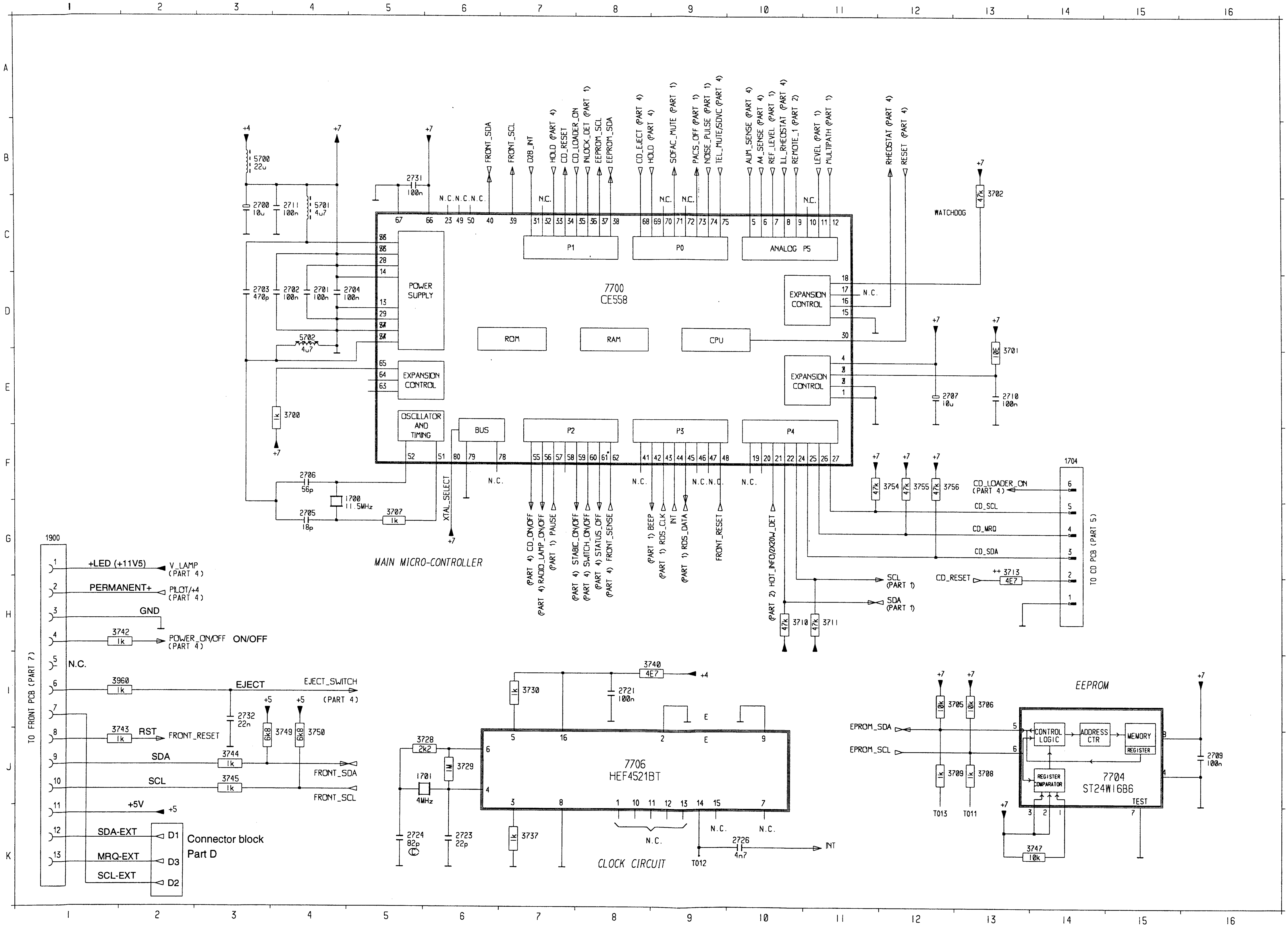
PART I : TUNER, RDS, SOFAC (MAIN PCB)

PCS 89 825


HOLD (PART 4)
7604 BC857B
3615 22k
3614 1k
2610 33u
FRONT_LEFT
REAR_LEFT
REAR_RIGHT
FRONT_RIGHT
2600 2u2
2601 2u2
2650 2u2
2652 2u2
3618 4E7
9603
9604
3608 1k
3609 1k
3610 1k
3611 1k
3650 1k
3651 1k
2604 4n7
2605 4n7
2606 4n7
2607 4n7
2651 4n7
2653 4n7
N.C.
+1
7602
TDA7374
7603
TDA7374
2608 100u
2657 100u
POWER AMPLIFIER
2655 100n
2658 2200u
+5
3404 470R
3403 22k
6404 BAS16
2405 470p
6401 F5V6
REMOTE_CTRL (PART 4)
+1
9601
+3
3655 22k
3653 10k
3654 330R
+3
3605 4k7
7605 BC847
FADER
HOT_INFO /2X20W_DET (PART 3)
3661 6k8
3662 15k
3619 4E7
3620 4E7
3622 4E7
3621 4E7
2611 100n
2612 100n
2614 100n
2613 100n
3623 4E7
3624 4E7
3626 4E7
3625 4E7
2615 100n
2616 100n
2618 100n
2617 100n
1222
1222 CONNECTOR BLOCK
20W FRONT LEFT
20W REAR LEFT
20W REAR RIGHT
20W FRONT RIGHT
1
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

1222	C15	9603	C 5
1222	H15	9604	E 5
1222	G15		
1222	H15		
1222	G15		
1222	F15		
1222	D15		
1222	D15		
2405	B11		
2600	C 5		
2601	E 5		
2604	C 7		
2605	D 7		
2606	D 7		
2607	E 7		
2608	F 7		
2610	B 6		
2611	F13		
2612	F14		
2613	F14		
2614	F14		
2615	I13		
2616	I14		
2617	I14		
2618	I14		
2650	F 5		
2651	G 7		
2652	H 5		
2653	H 7		
2655	F 9		
2657	I 7		
2658	F 9		
3403	B12		
3404	B12		
3605	E12		
3608	C 6		
3609	D 6		
3610	D 6		
3611	E 6		
3614	B 6		
3615	B 5		
3618	E 4		
3619	E13		
3620	E14		
3621	E14		
3622	E14		
3623	I13		
3624	I14		
3625	I14		
3626	I14		
3650	F 6		
3651	H 6		
3653	F11		
3654	F11		
3655	E11		
3661	F12		
3662	F13		
6401	B11		
6404	B13		
7602	C 7		
7603	F 7		
7604	B 6		
7605	F12		
9601	E10		

PART 2 : POWER AMPLIFIER & REMOTE INTERFACE (MAIN PCB)

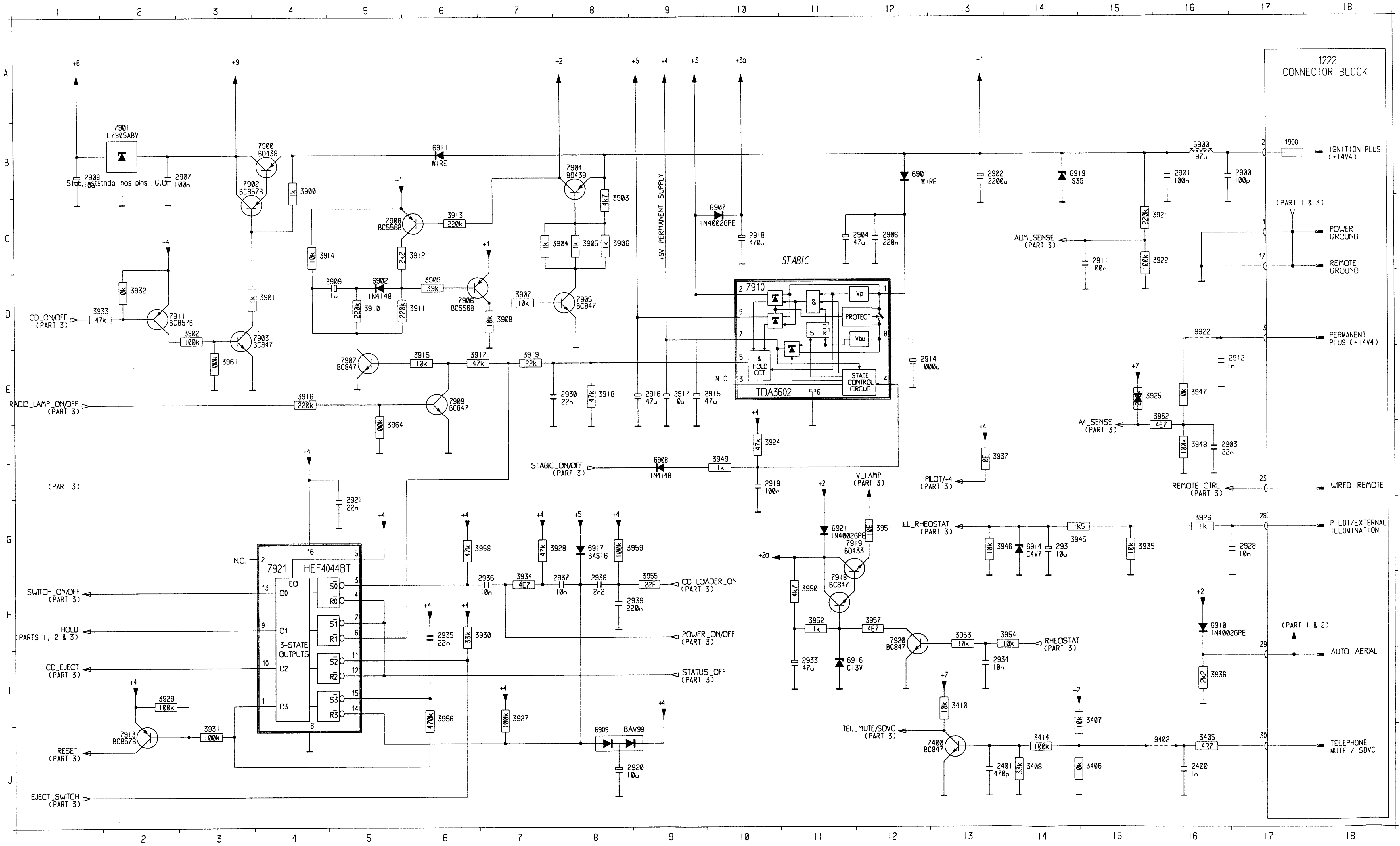

7700
CE558
POWER SUPPLY
EXPANSION CONTROL
OSCILLATOR AND TIMING
BUS
ROM
RAM
CPU
P0
P1
P2
P3
P4
ANALOG P5
MAIN MICRO-CONTROLLER
FRONT_SDA
FRONT_SCL
D2B_INT
HOLD (PART 4)
CD_RESET
CD_LOADER_ON
INLOCK_DET (PART 1)
EEPROM_SCL
EEPROM_SDA
CD_EJECT (PART 4)
HOLD (PART 4)
SOFAC_MUTE (PART 1)
PACS_OFF (PART 1)
NOISE_PULSE (PART 1)
TEL_MUTE/SDVC (PART 4)
AUM_SENSE (PART 4)
A4_SENSE (PART 4)
REF_LEVEL (PART 1)
ILL_RHEOSTAT (PART 4)
REMOTE_1 (PART 2)
LEVEL (PART 1)
MULTIPATH (PART 1)
RHEOSTAT (PART 4)
RESET (PART 4)
WATCHDOG
XTAL_SELECT
(PART 4) CD_ON/OFF
(PART 4) RADIO_LAMP_ON/OFF
(PART 1) PAUSE
(PART 4) STABIC_ON/OFF
(PART 4) SWITCH_ON/OFF
(PART 4) STATUS_OFF
(PART 4) FRONT_SENSE
(PART 1) BEEP
(PART 1) RDS_CLK
INT
(PART 1) RDS_DATA
FRONT_RESET
(PART 2) HOT_INFO/2X20W_DET
SCL (PART 1)
SDA (PART 1)
CD_LOADER_ON (PART 4)
CD_SCL
CD_MRQ
CD_SDA
CD_RESET
TO CD PCB (PART 5)
1704
1700 11.5MHz
1900
TO FRONT PCB (PART 7)
+LED (+11V5)
V_LAMP (PART 4)
PERMANENT+
PILOT/+4 (PART 4)
GND
POWER_ON/OFF (PART 4)
ON/OFF
N.C.
EJECT
EJECT_SWITCH (PART 4)
RST
FRONT_RESET
SDA
FRONT_SDA
SCL
FRONT_SCL
+5V
SDA-EXT
MRQ-EXT
SCL-EXT
D1
D3
D2
Connector block Part D
7706
HEF4521BT
CLOCK CIRCUIT
1701 4MHz
T012
INT
EEPROM
EPROM_SDA
EPROM_SCL
CONTROL LOGIC
ADDRESS CTR
MEMORY
REGISTER
REGISTER COMPARATOR
7704
ST24W16B6
TEST
T013
T011

1700	G 5
1704	F14
2700	C 3
2701	D 4
2702	D 4
2703	D 3
2704	D 5
2705	G 4
2706	F 4
2707	E12
2709	J14
2710	E13
2711	C 4
2731	B 5
3700	E 4
3701	E13
3702	B13
3705	I11
3706	I11
3707	G 5
3708	J11
3709	J11
3710	H10
3711	H11
3713	G13
3747	K12
3754	F12
3755	F12
3756	F12
5700	B 3
5701	C 4
5702	D 4
7700	D 8
7704	J13
T011	J11
T013	J10
T016	K12
T020	B 4

PART 3 : MAIN MICRO-CONTROLLER, EEPROM, **(MAIN PCB)**

PCS 89 827

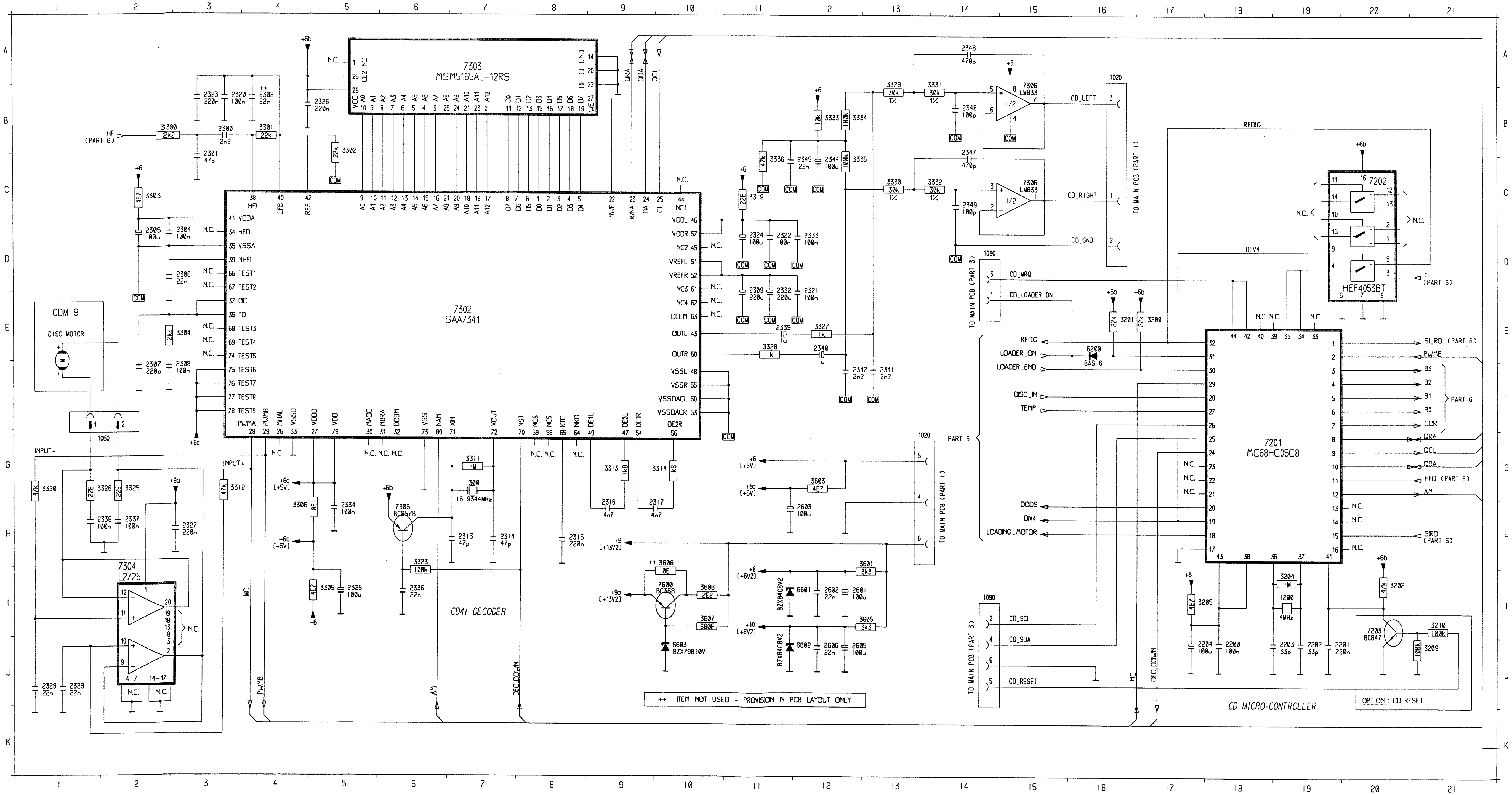
1222	C17
1222	A18
1222	D17
1222	C17
1222	F17
1222	G17
1222	I17
1222	J17
2400	J16
2401	J13
2900	B17
2901	B16
2902	B13
2903	F16
2904	C12
2906	C12
2907	B 3
2908	B 1
2909	D 5
2911	C15
2912	E17
2914	E12
2915	E10
2916	E 9
2917	E 9
2918	C10
2919	F10
2920	J 9
2921	G 5
2928	G17
2930	E 8
2931	G14
2933	I11
2934	I13
2935	H 6
2936	H 7
2937	H 8
2938	H 8
2939	H 9
3405	J16
3406	J15
3407	I15
3408	J14
3410	I13
3414	J14
3900	B 4
3901	D 4
3902	D 3
3903	C 8
3904	C 8
3905	C 8
3906	C 8
3907	D 7
3908	D 7
3909	D 6
3910	D 5
3911	D 6
3912	C 6
3913	C 6
3914	C 4
3915	E 6
3916	E 4
3917	E 6
3918	E 8
3919	E 7
3921	C16
3922	C16
3924	F10
3925	E15
3926	G16
3927	I 7
3928	G 8
3929	I 2
3930	H 7
3931	J 3
3932	D 2
3933	D 1
3934	H 7
3935	G15
3936	I16
3937	F13
3945	G14
3946	G13
3947	E16
3948	F16
3949	F10
3950	H11
3951	G12
3952	H11
3953	H13
3954	H14
3955	H 9
3956	I 6
3957	H12
3958	G 7
3959	G 9
3961	E 3
3962	E16
3964	F 5
5900	B16
6901	B12
6902	D 5
6907	C10
6908	F 9
6909	J 8
6910	H16
6911	B 6
6914	G14
6916	I11
6917	G 8
6919	B14
6921	G11
7400	J13
7900	B 4
7901	B 2
7902	B 3
7903	D 3
7904	B 8
7905	D 8
7906	D 6
7907	E 5
7908	C 5
7909	E 6
7910	D10
7911	D 2
7913	J 2
7918	H11
7919	G11
7920	H12
7921	G 4
9402	J16
9922	D16
T038	B 1


1222
CONNECTOR BLOCK
IGNITION PLUS (+14V4)
POWER GROUND
REMOTE GROUND
PERMANENT PLUS (+14V4)
WIRED REMOTE
PILOT/EXTERNAL ILLUMINATION
AUTO AERIAL
TELEPHONE MUTE / SDVC
(PART 1 & 3)
(PART 1 & 2)
7901
L7805ABV
7900
BD438
7902
BC857B
6911
WIRE
7904
BD438
6901
WIRE
6919
S3G
5900
97u
1900
+5V PERMANENT SUPPLY
6907
1N4002GPE
STABIC
7910
TDA3602
Vp
PROTECT
Vbu
& HOLD CCT
STATE CONTROL CIRCUIT
N.C.
AUX_SENSE (PART 3)
A4_SENSE (PART 3)
REMOTE_CTRL (PART 3)
ILL_RHEOSTAT (PART 3)
CD_ON/OFF (PART 3)
RADIO_LAMP_ON/OFF (PART 3)
STABIC_ON/OFF (PART 3)
V_LAMP (PART 3)
PILOT/+4 (PART 3)
7921
HEF4044BT
3-STATE OUTPUTS
SWITCH_ON/OFF (PART 3)
HOLD (PARTS 1, 2 & 3)
CD_EJECT (PART 3)
RESET (PART 3)
EJECT_SWITCH (PART 3)
CD_LOADER_ON (PART 3)
POWER_ON/OFF (PART 3)
STATUS_OFF (PART 3)
6909 BAV99
6917 BAS16
7918 BC847
7919 BD433
6921 1N4002GPE
6916 C13V
6914 C4V7
7920 BC847
RHEOSTAT (PART 3)
6910 1N4002GPE
TEL_MUTE/SDVC (PART 3)
7400 BC847
7903 BC847
7911 BC857B
7913 BC857B
7906 BC556B
7908 BC556B
7905 BC847
7907 BC847
7909 BC847
6902 1N4148
6908 1N4148
9922
9402
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PART 4 : SUPPLY (MAIN PCB)

CD4+ DECODER & CD MICRO-CONTROLLER (CD PCB)

1020	A16
1020	G13
1060	G 1
1090	I14
1090	D14
1200	I19
1300	G 7
2200	J18
2201	J20
2202	J19
2203	J19
2204	J18
2300	B 3
2301	C 3
2302	B 4
2304	D 3
2305	D 2
2306	D 3
2307	F 2
2308	F 3
2309	D11
2313	H 7
2314	H 7
2315	H 8
2316	H 9
2317	H10
2320	B 3
2321	D12
2322	D11
2323	B 3
2324	D11
2325	I 5
2326	B 5
2327	H 3
2328	J 1
2329	J 1
2332	D11
2333	D12
2334	H 5
2336	I 6
2337	H 2
2338	H 2
2339	E11
2340	E12
2341	F13
2342	F12
2344	C12
2345	C12
2346	A14
2347	B14
2348	B14
2349	C14
2601	I12
2602	I12
2603	H12
2605	J12
2606	J12
3200	E17
3201	E16
3202	I20
3204	I19
3205	I18
3209	J21
3210	I21
3300	B 2
3301	B 4
3302	B 5
3303	C 2
3304	E 3
3305	I 5
3306	H 4
3311	G 7
3312	G 3
3313	G 9
3314	G10
3319	C11
3320	G 1
3323	H 6
3325	G 2
3326	G 2
3327	E12
3328	E11
3329	B13
3330	C13
3331	B14
3332	C14
3333	B12
3334	B12
3335	C12
3336	C11
3601	H13
3603	G12
3605	I13
3606	I10
3607	I10
3608	H10
6200	E16
6601	I12
6602	J12
6603	J10
7201	G18
7202	C20
7203	I20
7302	E 7
7303	A 7
7304	I 2
7305	H 6
7306	C15
7306	B15
7600	I10

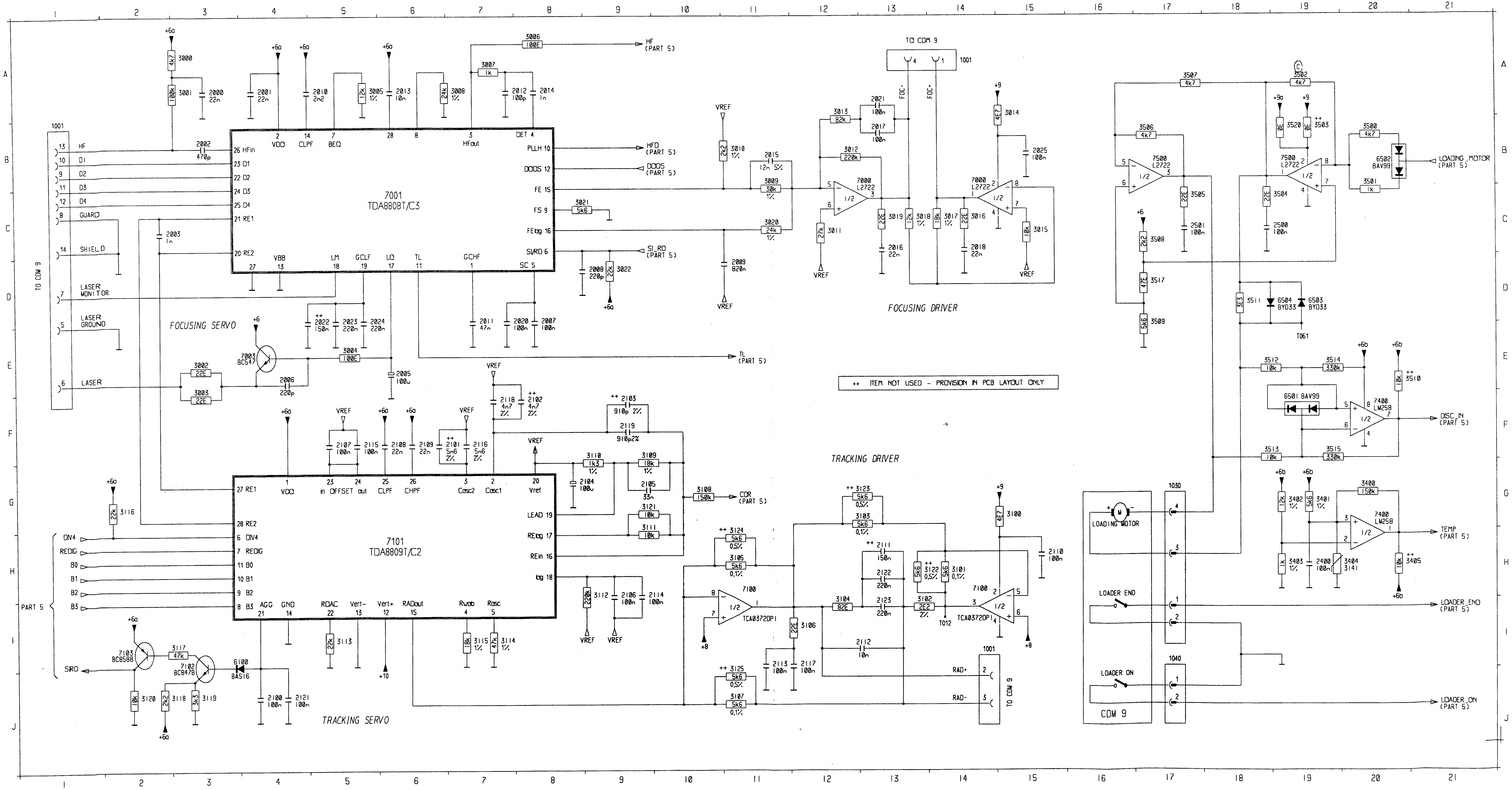


7303
MSM5165AL-12RS
7302
SAA7341
7201
MC68HC05C8
7202
HEF4053BT
7304
L2726
7305
BC857B
7306
LM833
7600
BC368
7203
BC847
CDM 9
DISC MOTOR
HF (PART 6)
INPUT-
INPUT+
CD_LEFT
CD_RIGHT
CD_GND
CD_WRQ
CD_LOADER_ON
CD_SCL
CD_SDA
CD_RESET
TO MAIN PCB (PART 1)
TO MAIN PCB (PART 3)
REDIG
LOADER_ON
LOADER_END
DISC_IN
TEMP
DODS
DIV4
LOADING_MOTOR
PART 6
SI_RD (PART 6)
PWMB
B3
B2
B1
B0
COR
QRA
QCL
QDA
HFD (PART 6)
AM
SRD (PART 6)
TL (PART 6)
MC
PWMB
DEC_DOWN
16.9344MHz
4MHz
BZX79B10V
BZX84C6V2
BZX84C8V2
BAS16
CD4+ DECODER
CD MICRO-CONTROLLER
OPTION : CD RESET

++ ITEM NOT USED - PROVISION IN PCB LAYOUT ONLY

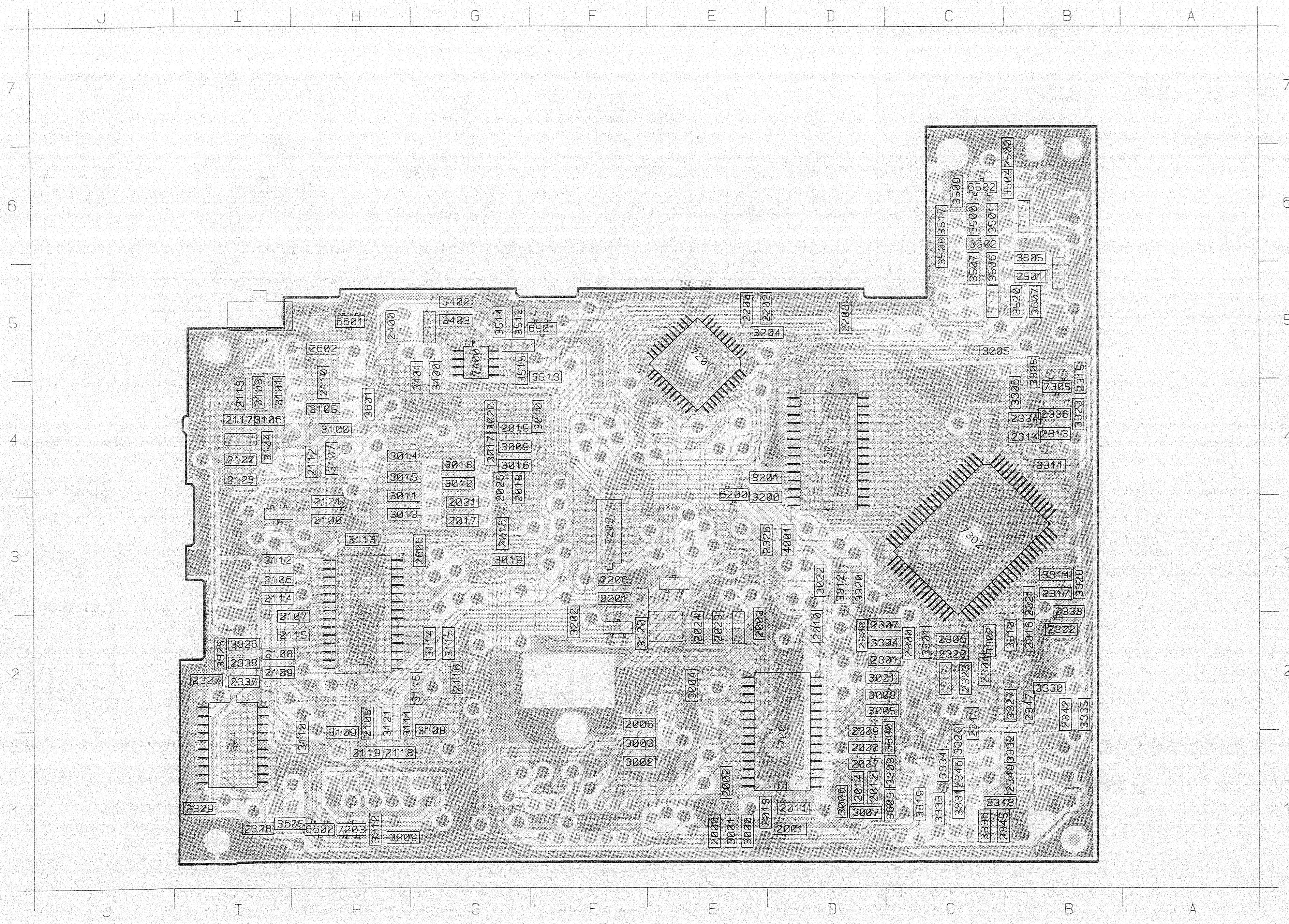
PART 6 : CD SERVO (CD PCB)

1001	A14
1001	I14
1001	B 1
1030	G17
1040	I17
2000	A 3
2001	A 4
2002	B 3
2003	C 3
2005	E 6
2006	E 4
2007	D 8
2008	D 9
2009	D11
2010	A 5
2011	D 7
2012	A 8
2013	A 6
2014	A 8
2015	B11
2016	C13
2017	B13
2018	C14
2020	D 8
2021	A13
2022	D 5
2023	D 5
2024	D 5
2025	B15
2100	J 4
2101	F 7
2102	F 8
2103	F 9
2104	G 9
2105	G 9
2106	H 9
2107	F 5
2108	F 6
2109	F 6
2110	H15
2111	H13
2112	I13
2113	I11
2114	H10
2115	F 5
2116	F 7
2117	I12
2118	F 7
2119	F 9
2121	J 4
2122	H13
2123	I13
2400	H19
2500	C19
2501	C17
3000	A 3
3001	A 3
3002	E 3
3003	E 3
3004	E 5
3005	A 5
3006	A 8
3007	A 7
3008	A 7
3009	B11
3010	B11
3011	C12
3012	B12
3013	A12
3014	A15
3015	C15
3016	C14
3017	C14
3018	C13
3019	C13
3020	C11
3021	C 8
3022	D 9
3100	G15
3101	H14
3102	I13
3103	G13
3104	I12
3105	H11
3106	I12
3107	J11
3108	G10
3109	F 9
3110	F 9
3111	G 9
3112	H 9
3113	I 5
3114	I 7
3115	I 7
3116	G 2
3117	I 3
3118	J 3
3119	J 3
3120	J 2
3121	G 9
3122	H14
3123	G13
3124	H11
3125	J11
3400	G20
3401	G19
3402	G19
3403	H19
3404	H20
3405	H21
3500	B20
3501	B20
3502	A19
3503	B19
3504	C19
3505	C17
3506	B17
3507	A17
3508	C17
3509	E17
3510	E21
3511	D18
3512	E18
3513	F18
3514	E19
3515	F19
3517	D17
3520	B19
6100	I 3
6501	F19
6502	B20
6503	D19
6504	D19
7000	B14
7000	B12
7001	C 6
7003	E 4
7100	H11
7100	H14
7101	H 6
7102	I 3
7103	I 2
7400	G20
7400	F20
7500	B19
7500	B17
T012	I14
T030	D 2
T031	E 2
T061	E19



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
A B C D E F G H I J
7001
TDA8808T/C3
7101
TDA8809T/C2
FOCUSING SERVO
TRACKING SERVO
FOCUSING DRIVER
TRACKING DRIVER
TO CDM 9
1001
HF
D1
D2
D3
D4
GUARD
SHIELD
LASER MONITOR
LASER GROUND
LASER
HF (PART 5)
HFD (PART 5)
DODS (PART 5)
SI_RD (PART 5)
TL (PART 5)
COR (PART 5)
26 HFin
23 D1
22 D2
24 D3
25 D4
21 RE1
20 RE2
VDD
CLPF
BEQ
HFout
DET 4
PLLH 10
DODS 12
FE 15
FS 9
FEbg 16
SI/RD 6
SC 5
VBB
LM
GCLF
LO
TL
GCHF
7003 BC547
27 RE1
28 RE2
6 DN4
7 REDIG
11 B0
10 B1
9 B2
8 B3
AGG
GND
RDAC
Vert-
Vert+
RADout
Rvco
Rosc
in OFFSET out
CHPF
Cosc2
Cosc1
Vref
LEAD 19
REbg 17
REin 16
bg 18
DN4
REDIG
B0
B1
B2
B3
PART 5
SIRD
7103 BC858B
7102 BC847B
6100 BAS16
7000 L2722
FOC-
FOC+
VREF
7100 TCA0372DP1
RAD+
RAD-
T012
++ ITEM NOT USED - PROVISION IN PCB LAYOUT ONLY
7500 L2722
6502 BAV99
LOADING MOTOR (PART 5)
6504 BYD33
6503 BYD33
T061
6501 BAV99
7400 LM258
DISC_IN (PART 5)
TEMP (PART 5)
LOADING MOTOR
LOADER END
LOADER ON
CDM 9
1030
1040
LOADER_END (PART 5)
LOADER_ON (PART 5)
+6a
+6b
+9
+8
+10

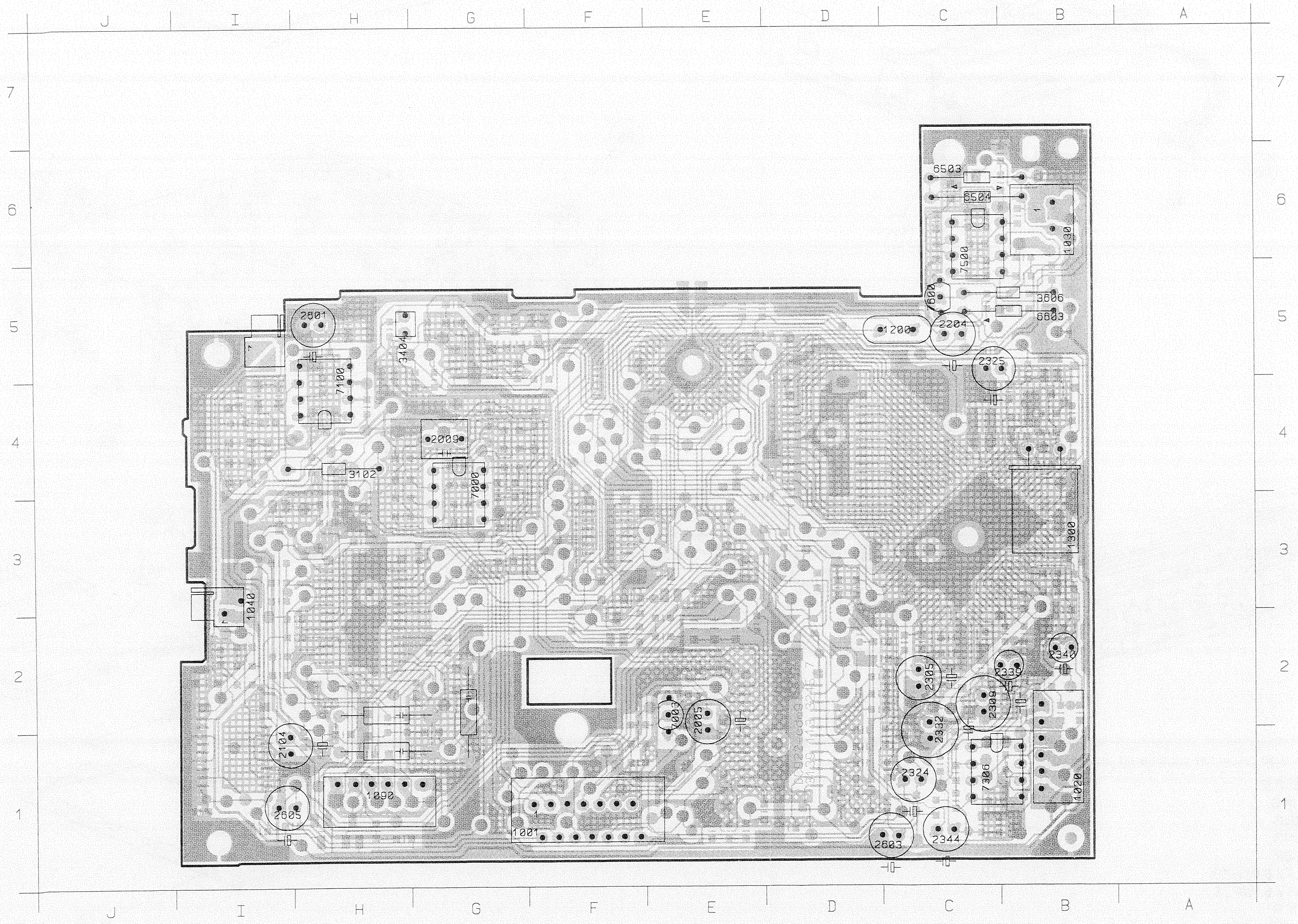
CD BOARD (CHIP)



2000	E	1	2501	B	6	3400	G	5
2001	D	1	2602	H	5	3401	G	5
2002	E	2	2606	G	3	3402	G	6
2003	E	3	3000	E	1	3403	G	5
2006	F	2	3001	E	1	3500	C	6
2007	D	2	3002	F	2	3501	C	6
2008	D	2	3003	F	2	3502	C	6
2010	D	3	3004	E	2	3504	B	7
2011	D	1	3005	D	2	3505	B	6
2012	D	1	3006	D	1	3506	C	6
2013	E	1	3007	D	1	3507	C	6
2014	D	1	3008	D	2	3508	C	6
2015	G	5	3009	G	4	3509	C	7
2016	G	4	3010	F	5	3512	G	5
2017	G	4	3011	H	4	3513	F	5
2018	G	4	3012	G	4	3514	G	5
2020	D	2	3013	H	4	3515	G	5
2021	G	4	3014	H	4	3517	C	6
2023	E	3	3015	H	4	3520	B	6
2024	E	3	3016	G	4	3601	H	5
2025	G	4	3017	G	4	3603	C	1
2100	H	4	3018	G	4	3605	I	1
2105	H	2	3019	G	3	3607	B	6
2106	I	3	3020	G	5	4001	D	4
2107	H	3	3021	D	2	6200	E	4
2108	I	3	3022	D	3	6501	F	5
2109	I	2	3100	H	5	6502	C	7
2110	H	5	3101	I	5	6601	H	5
2112	H	4	3103	I	5	6602	H	1
2113	I	5	3104	I	4	7001	D	2
2114	I	3	3105	H	5	7101	H	3
2115	H	3	3106	I	5	7201	E	5
2116	G	2	3107	H	4	7202	F	4
2117	I	5	3108	G	2	7203	H	1
2118	H	2	3109	H	2	7302	C	4
2119	H	2	3110	H	2	7303	D	4
2121	H	4	3111	H	2	7304	I	2
2122	I	4	3112	I	3	7305	B	5
2123	I	4	3113	H	4	7400	G	5
2200	E	6	3114	G	3			
2201	F	3	3115	G	3			
2202	E	6	3116	G	2			
2203	D	5	3120	F	3			
2206	F	3	3121	H	2			
2300	C	3	3200	E	4			
2301	D	3	3201	E	4			
2304	C	2	3202	F	3			
2306	C	3	3204	D	5			
2307	D	3	3205	C	5			
2308	D	3	3209	H	1			
2313	B	4	3210	H	1			
2314	B	4	3300	C	2			
2315	B	5	3301	C	3			
2316	B	3	3302	C	3			
2317	B	3	3303	C	2			
2320	C	3	3304	D	3			
2321	B	3	3305	B	5			
2322	B	3	3306	B	5			
2323	C	2	3311	B	4			
2326	E	4	3312	D	3			
2327	I	2	3313	B	3			
2328	I	1	3314	B	3			
2329	I	1	3319	C	1			
2333	B	3	3320	D	3			
2334	B	5	3323	B	5			
2336	B	5	3325	I	3			
2337	I	2	3326	I	3			
2338	I	3	3327	B	2			
2341	C	2	3328	B	3			
2342	B	2	3329	C	2			
2345	C	1	3330	B	2			
2346	C	2	3331	C	1			
2347	B	2	3332	B	2			
2348	C	1	3333	C	1			
2349	B	2	3334	C	2			
2400	H	5	3335	B	2			
2500	B	7	3336	C	1			

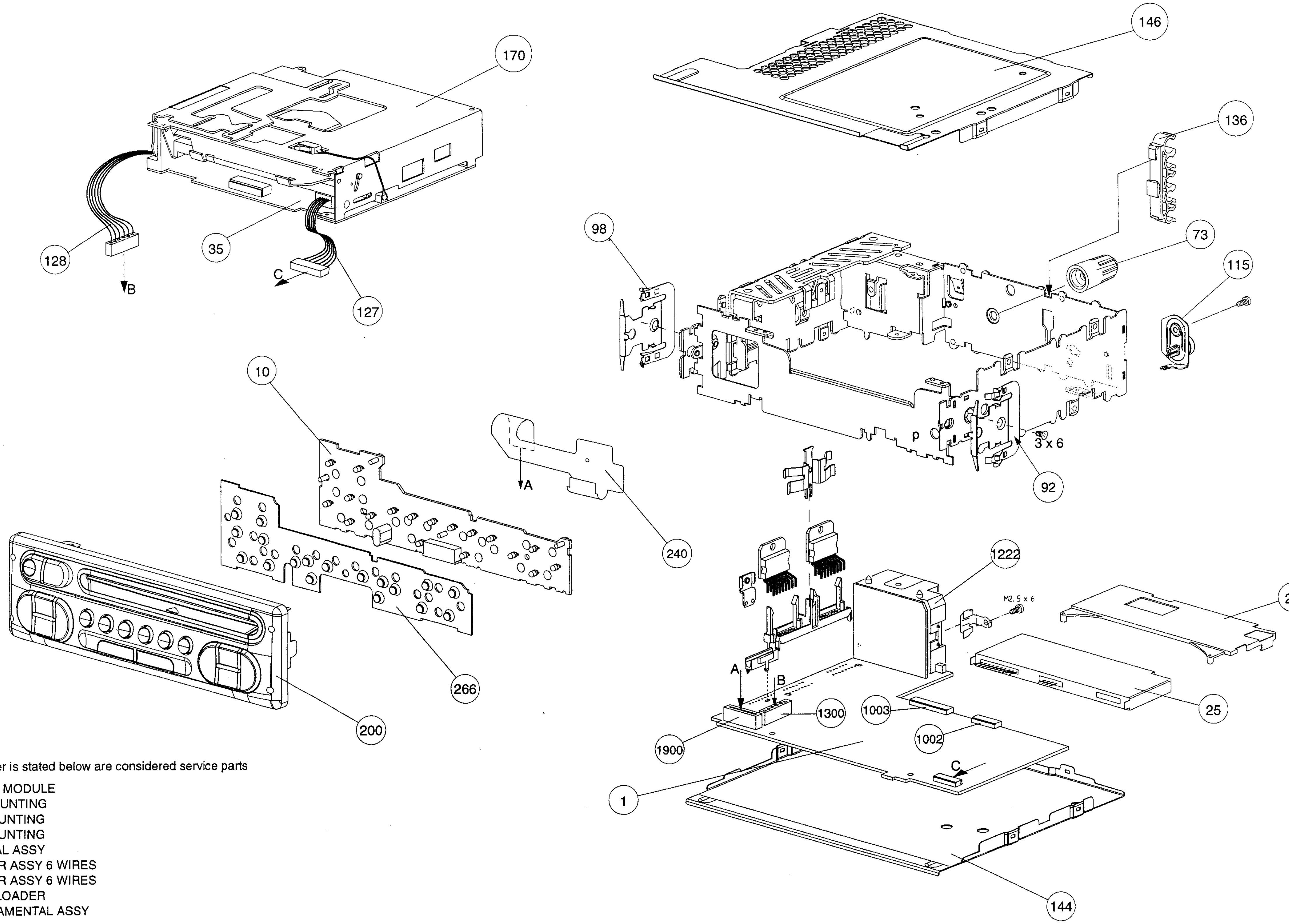
CD BOARD (NON CHIP)

1001 F 1	1040 I 3	1300 B 4	2104 I 2	2309 C 2	2332 C 2	2344 C 1	2605 I 1	3606 B 6	6603 B 6	7100 H 5	7600 C 6
1020 B 2	1090 H 2	2005 E 2	2204 C 5	2324 C 2	2339 B 3	2601 H 5	3102 H 4	6503 C 7	7000 G 4	7306 C 2	
1030 B 6	1200 C 5	2009 G 4	2305 C 2	2325 C 5	2340 B 3	2603 C 1	3404 H 5	6504 C 7	7003 E 2	7500 C 6	



J
I
H
G
F
E
D
C
B
A
7
6
5
4
3
2
1
6503
6504
1030
7500
3606
6603
7600
2204
1200
2325
2601
7100
3404
2009
7000
3102
1300
1040
2340
2339
2305
2309
2332
7003
2005
7306
2104
2324
1020
2605
1090
1001
2603
2344

22DC942/62
EXPLODED VIEW


170
146
136
73
115
98
128
35
127
B
C
10
240
A
92
3 x 6
p
1222
M2.5 x 6
26
266
200
25
1300
1003
1002
1900
1
144
A
B
C

MECHANICAL PARTSLIST

Only those parts of which the item number is stated below are considered service parts

25	4822 210 10783	IC96 TUNER MODULE
73	4822 532 12177	BUFFER MOUNTING
92	4822 492 71124	SPRING MOUNTING
98	4822 492 71124	SPRING MOUNTING
115	4822 267 31702	BUSH AERIAL ASSY
127	4822 321 62188	CONNECTOR ASSY 6 WIRES
128	4822 321 62188	CONNECTOR ASSY 6 WIRES
170	4822 691 10366	CDM9 CAR LOADER
200	4822 459 04708	PLATE ORNAMENTAL ASSY
240	4822 320 11527	FLEX FOIL
266	4822 410 10605	KEYPAD
1222	4822 265 11071	CONNECTOR BLOCK ASSY

MAIN PWB

Miscellaneous		
25	4822 210 10783	TUNER IC96 2SH
1500	4822 242 80259	LN-G38-311 (4,332MHZ)
1700	4822 242 81856	CSA11,5MTZ-TF1
1701	4822 242 72579	CSA4,00MG-TF01

-||-		
2000	5322 122 32654	22nF 10% X7R 63V
2001	5322 126 10223	4,7nF 10% X7R 63V
2002	5322 122 34123	1nF 10% X7R 50V
2307	4822 124 23282	1µF 20% 50V
2308	4822 124 23282	1µF 20% 50V
2400	5322 122 34123	1nF 10% X7R 50V
2401	5322 122 32268	470pF 10% 50V
2500	5322 122 31863	330pF 5% NP0 50V
2501	5322 116 80853	560pF 5% NP0 63V
2502	4822 126 13057	220nF 10% X7R 25V
2503	4822 124 23504	2.2µF20% 50V
2504	5322 122 32452	47pF 5% NP0 63V
2505	4822 122 33515	82pF 5% NP0 63V
2507	5322 126 10184	680P 5% NPO 50V
2508	4822 124 23504	2.2µF 20% 50V
2509	4822 124 23504	2.2µF 20% 50V
2510	4822 126 13196	100nF 10% X7R 25V 0805
2511	4822 126 13196	100nF 10% X7R 25V 0805
2512	5322 122 33538	150pF 2%NP0 63V
2513	5322 122 33538	150pF 2%NP0 63V
2514	4822 126 13057	220nF 10% X7R 25V
2515	5322 122 33538	150pF 2%NP0 63V
2516	5322 122 33538	150pF 2%NP0 63V
2518	4822 122 33216	270pF 5% NP0 50V
2519	4822 122 33216	270pF 5% NP0 50V
2520	5322 122 32654	22nF 10% X7R 63V
2521	4822 124 23504	2.2µF 20% 50V
2524	5322 122 32654	22nF 10% X7R 63V
2525	5322 122 32448	10pF 5% 50V
2526	4822 122 32636	390pF 5%SL 50V
2527	5322 126 10223	4,7nF 10% X7R 63V
2528	5322 122 34123	1nF 10% X7R 50V
2600	4822 124 23504	2.2µF 20% 50V
2601	4822 124 23504	2.2µF 20% 50V
2604	5322 126 10223	4,7nF 10% X7R 63V
2605	5322 126 10223	4,7nF 10% X7R 63V
2606	5322 126 10223	4,7nF 10% X7R 63V
2607	5322 126 10223	4,7nF 10% X7R 63V
2608	4822 124 80499	100µF 20% 16V
2610	4822 124 23281	33µF 20% 16V
2611	5322 122 34098	10nF 10% X7R 63V
2612	5322 122 34098	10nF 10% X7R 63V
2613	5322 122 34098	10nF 10% X7R 63V
2614	5322 122 34098	10nF 10% X7R 63V
2615	5322 122 34098	10nF 10% X7R 63V
2616	5322 122 34098	10nF 10% X7R 63V
2617	5322 122 34098	10nF 10% X7R 63V
2618	5322 122 34098	10nF 10% X7R 63V
2650	4822 124 23504	2.2µF 20% 50V
2651	5322 126 10223	4,7nF 10% X7R 63V
2652	4822 124 23504	2.2µF 20% 50V
2653	5322 126 10223	4,7nF 10% X7R 63V
2655	4822 126 13196	100nF 10% X7R 25V 0805
2657	4822 124 80499	100µF 20% 16V
2658	4822 124 80769	2200µF 20% 16V
2700	4822 124 41017	10µF 16V
2701	4822 126 13196	100nF 10% X7R 25V 0805
2702	4822 126 13196	100nF 10% X7R 25V 0805
2703	5322 122 32268	470pF 10% 50V
2704	4822 126 13196	100nF 10% X7R 25V 0805
2705	4822 126 13689	18pF 1% NP0 63V
2706	4822 126 13693	56pF 1% NP0 63V
2707	4822 124 41017	10µF 16V
2709	4822 126 13196	100nF 10% X7R 25V 0805
2710	4822 126 13196	100nF 10% X7R 25V 0805
2711	4822 126 13196	100nF 10% X7R 25V 0805
2721	4822 126 13196	100nF 10% X7R 25V 0805
2723	5322 122 32658	22pF 5% 50V
2724	4822 122 33515	82pF 5% NP0 63V
2726	5322 126 10223	4,7nF 10% X7R 63V
2731	4822 126 13196	100nF 10% X7R 25V 0805
2732	5322 122 32654	22nF 10% X7R 63V
2812	5322 122 34098	10nF 10% X7R 63V
2813	4822 124 80453	100µF 20% 10V
2814	4822 126 13057	220nF 10% X7R 25V
2817	4822 126 13057	220nF 10% X7R 25V
2818	4822 122 32542	47nF 10% X7R 63V
2819	4822 122 32646	5,6nF 10% X7R 50V
2820	4822 124 22646	47µF 20% 16V
2821	4822 126 13057	220nF 10% X7R 25V
2824	4822 126 13057	220nF 10% X7R 25V
2825	4822 122 32542	47nF 10% X7R 63V
2826	4822 122 32646	5,6nF 10% X7R 50V
2827	5322 122 34098	10nF 10% X7R 63V
2828	4822 126 13196	100nF 10% X7R 25V 0805
2900	5322 122 32531	100pF 5% NP0 50V
2901	4822 126 13196	100nF 10% X7R 25V 0805
2902	4822 124 80769	2200µF 20% 16V
2903	5322 122 32654	22nF 10% X7R 63V
2904	4822 124 80056	47µF 20% 16V
2906	4822 126 13057	220nF 10% X7R 25V
2907	4822 126 13196	100nF 10% X7R 25V 0805
2908	4822 124 41017	10µF 16V
2909	4822 124 23282	1µF 20% 50V
2911	4822 126 13196	100nF 10% X7R 25V 0805
2912	5322 122 34123	1nF 10% X7R 50V
2914	4822 124 80766	1000µF 20% 25V
2915	4822 124 80056	47µF 20% 16V
2916	4822 124 80056	47µF 20% 16V
2917	5322 124 41766	10µF 20% 50V
2918	4822 124 80767	470µF 20% 16V
2919	4822 126 13196	100nF 10% X7R 25V 0805
2920	4822 124 41017	10µF 16V
2921	5322 122 32654	22nF 10% X7R 63V
2928	5322 122 34098	10nF 10% X7R 63V
2930	5322 122 32654	22nF 10% X7R 63V
2931	4822 124 41017	10µF 16V
2933	4822 124 80056	47µF 20% 16V
2934	5322 122 34098	10nF 10% X7R 63V
2935	5322 122 32654	22nF 10% X7R 63V
2936	5322 122 34098	10nF 10% X7R 63V
2937	5322 122 34098	10nF 10% X7R 63V
2938	4822 122 33127	2,2nF 10% X7R 63V
2939	4822 126 13057	220nF 10% X7R 25V

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3000	4822 051 20478	4Ω7 5% 0,1W
3001	4822 051 20478	4Ω7 5% 0,1W
3002	4822 051 20478	4Ω7 5% 0,1W
3003	4822 051 20273	27KΩ 5% 0,1W
3004	4822 051 20104	100KΩ 5% 0,1W
3005	4822 051 20102	1KΩ 5% 0,1W
3403	4822 051 20153	15KΩ 5% 0,1W
3404	4822 051 20331	330Ω 5% 0,1W
3405	4822 051 20478	4Ω7 5% 0,1W
3406	4822 117 10833	10KΩ 1% 0,1W
3407	4822 117 10833	10KΩ 1% 0,1W
3408	4822 051 20333	33KΩ 5% 0,1W
3410	4822 117 10833	10KΩ 1% 0,1W
3414	4822 116 52234	100KΩ 5% 0,5W
3500	4822 051 20478	4Ω7 5% 0,1W
3502	4822 117 11449	2K2 1% 0,1W
3503	4822 051 20104	100KΩ 5% 0,1W
3504	4822 051 20683	68KΩ 5% 0,1W
3505	4822 051 20223	22KΩ 5% 0,1W
3506	4822 051 20334	330KΩ 5% 0,1W
3507	4822 051 20229	22Ω 5% 0,1W
3508	4822 117 10833	10KΩ 1% 0,1W
3509	4822 051 20393	39KΩ 5% 0,1W
3510	4822 051 20332	3K3 5% 0,1W
3511	4822 051 20332	3K3 5% 0,1W
3512	4822 117 10833	10KΩ 1% 0,1W
3513	4822 051 20393	39KΩ 5% 0,1W
3514	4822 117 10833	10KΩ 1% 0,1W
3515	4822 051 20393	39KΩ 5% 0,1W
3516	4822 117 10833	10KΩ 1% 0,1W
3517	4822 051 20393	39KΩ 5% 0,1W
3518	4822 051 20393	39KΩ 5% 0,1W
3520	4822 051 20223	22KΩ 5% 0,1W
3523	4822 116 52244	15KΩ 5% 0,5W
3524	4822 051 20332	3K3 5% 0,1W
3525	4822 117 10833	10KΩ 1% 0,1W
3526	4822 051 20334	330KΩ 5% 0,1W
3527	4822 051 20472	4K70 5% 0,1W
3529	4822 051 20224	220KΩ 5% 0,1W
3531	4822 051 20104	100KΩ 5% 0,1W
3605	4822 051 20472	4K70 5% 0,1W
3608	4822 051 20102	1KΩ 5% 0,1W
3609	4822 051 20102	1KΩ 5% 0,1W
3610	4822 051 20102	1KΩ 5% 0,1W
3611	4822 051 20102	1KΩ 5% 0,1W
3614	4822 051 20102	1KΩ 5% 0,1W
3615	4822 051 20223	22KΩ 5% 0,1W
3618	4822 051 20478	4Ω7 5% 0,1W
3619	4822 051 20109	10Ω 5% 0,1W
3620	4822 051 20109	10Ω 5% 0,1W
3621	4822 051 20109	10Ω 5% 0,1W
3622	4822 051 20109	10Ω 5% 0,1W
3623	4822 051 20109	10Ω 5% 0,1W
3624	4822 051 20109	10Ω 5% 0,1W
3625	4822 051 20109	10Ω 5% 0,1W
3626	4822 051 20109	10Ω 5% 0,1W
3650	4822 051 20102	1KΩ 5% 0,1W
3651	4822 051 20102	1KΩ 5% 0,1W
3653	4822 117 10833	10KΩ1% 0,1W
3654	4822 116 40254	330R
3655	4822 116 52257	22KΩ5% 0,5W
3661	4822 116 83961	6K8 5%
3662	4822 051 20153	15KΩ 5% 0,1W
3700	4822 051 20102	1KΩ 5% 0,1W
3701	4822 051 20109	10Ω 5% 0,1W
3702	4822 117 10834	47KΩ 1% 0,1W
3705	4822 117 10833	10KΩ 1% 0,1W
3706	4822 117 10833	10KΩ 1% 0,1W
3707	4822 051 20102	1KΩ 5% 0,1W
3708	4822 051 20102	1KΩ 5% 0,1W
3709	4822 051 20102	1KΩ 5% 0,1W
3710	4822 117 10834	47KΩ 1% 0,1W
3711	4822 117 10834	47KΩ 1% 0,1W
3713	4822 051 20478	4Ω7 5% 0,1W
3728	4822 117 11449	2K2 1% 0,1W
3729	4822 051 20105	1MΩ 5% 0,1W
3730	4822 051 20102	1KΩ 5% 0,1W
3737	4822 051 20102	1KΩ 5% 0,1W
3740	4822 051 20478	4Ω7 5% 0,1W
3742	4822 051 20102	1KΩ 5% 0,1W
3743	4822 051 20102	1KΩ 5% 0,1W
3744	4822 051 20102	1KΩ 5% 0,1W
3745	4822 051 20102	1KΩ 5% 0,1W
3747	4822 117 10833	10KΩ 1% 0,1W
3749	4822 051 20682	6K80 5% 0,1W
3750	4822 051 20682	6K80 5% 0,1W
3754	4822 117 10834	47KΩ 1% 0,1W
3755	4822 117 10834	47KΩ 1% 0,1W
3756	4822 117 10834	47KΩ 1% 0,1W
3816	4822 051 20478	4Ω7 5% 0,1W
3817	4822 051 20224	220KΩ 5% 0,1W
3819	4822 117 11449	2K2 1% 0,1W
3821	4822 117 11449	2K2 1% 0,1W
3822	4822 051 20102	1KΩ 5% 0,1W
3823	4822 051 20102	1KΩ 5% 0,1W
3824	4822 051 20224	220KΩ 5% 0,1W
3827	4822 117 10833	10KΩ 1% 0,1W
3828	4822 117 10965	18KΩ 1% 0,1W
3829	4822 117 10965	18KΩ 1% 0,1W
3856	4822 051 20224	220KΩ 5% 0,1W
3857	4822 051 20478	4Ω7 5% 0,1W
3900	4822 051 20102	1KΩ 5% 0,1W
3901	4822 051 20102	1KΩ 5% 0,1W
3902	4822 051 20104	100KΩ 5% 0,1W
3903	4822 051 20472	4K70 5% 0,1W
3904	4822 050 11002	1KΩ 1% 0,4W
3905	4822 050 11002	1KΩ 1% 0,4W
3906	4822 050 11002	1KΩ 1% 0,4W
3907	4822 117 10833	10KΩ 1% 0,1W
3908	4822 117 10833	10KΩ 1% 0,1W
3909	4822 051 20393	39KΩ 5% 0,1W
3910	4822 051 20224	220KΩ 5% 0,1W
3911	4822 051 20224	220KΩ 5% 0,1W
3912	4822 117 11449	2K2 1% 0,1W
3913	4822 051 20224	220KΩ 5% 0,1W
3914	4822 117 10833	10KΩ 1% 0,1W
3915	4822 117 10833	10KΩ 1% 0,1W
3916	4822 051 20224	220KΩ 5% 0,1W
3917	4822 117 10834	47KΩ 1% 0,1W
3918	4822 117 10834	47KΩ 1% 0,1W

MAIN PWB (CONT'D)

3919	4822 051 20223	22KΩ 5% 0,1W
3921	4822 051 20224	220KΩ 5% 0,1W
3922	4822 051 20104	100KΩ 5% 0,1W
3924	4822 117 10834	47KΩ 1% 0,1W
3925	4822 130 83757	BAS216
3926	4822 050 11002	1KΩ 1% 0,4W
3927	4822 051 20104	100KΩ 5% 0,1W
3928	4822 117 10834	47KΩ 1% 0,1W
3929	4822 051 20104	100KΩ 5% 0,1W
3930	4822 051 20333	33KΩ 5% 0,1W
3931	4822 051 20104	100KΩ 5% 0,1W
3932	4822 117 10833	10KΩ 1% 0,1W
3933	4822 117 10834	47KΩ 1% 0,1W
3934	4822 051 20478	4Ω7 5% 0,1W
3935	4822 117 10833	10KΩ 1% 0,1W
3936	4822 117 11449	2K2 1% 0,1W
3937	4822 051 20008	0Ω JUMP. (0805)
3945	4822 116 52243	1K5 5% 0,5W
3946	4822 117 10833	10KΩ 1% 0,1W
3947	4822 117 10833	10KΩ 1% 0,1W
3948	4822 051 20104	100KΩ 5% 0,1W
3949	4822 051 20102	1KΩ 5% 0,1W
3950	4822 051 20472	4K70 5% 0,1W
3951	4822 116 52176	10E 5% 0,5W
3952	4822 051 20102	1KΩ 5% 0,1W
3953	4822 117 10833	10KΩ 1% 0,1W
3954	4822 117 10833	10KΩ 1% 0,1W
3955	4822 051 20229	22Ω 5% 0,1W
3956	4822 051 20474	470KΩ 5% 0,1W
3957	4822 051 20478	4Ω7 5% 0,1W
3958	4822 117 10834	47KΩ 1% 0,1W
3959	4822 051 20104	100KΩ 5% 0,1W
3960	4822 051 20102	1KΩ 5% 0,1W
3961	4822 051 20104	100KΩ 5% 0,1W
3962	4822 051 20478	4Ω7 5% 0,1W
3964	4822 051 20104	100KΩ 5% 0,1W

5700	4822 157 50961	22UH
5701	4822 157 60122	LAL02 A 4U7 PM10
5702	4822 157 60122	LAL02 A 4U7 PM10
5703	4822 157 53941	LAL04 A 100U PM10
5900	4822 157 70935	COIL ASSY 97UH 10A

6401	4822 130 34173	BZX79-B5V6
6404	5322 130 31928	BAS16
6501	5322 130 34337	BAV99
6502	5322 130 34337	BAV99
6801	4822 130 30621	1N4148
6902	4822 130 30621	1N4148
6907	5322 130 30684	1N4002RL
6908	4822 130 30621	1N4148
6909	5322 130 34337	BAV99
6910	5322 130 30684	1N4002RL
6914	4822 130 34174	BZX79-B4V7
6916	4822 130 34195	BZX79-B13
6917	5322 130 31928	BAS16
6919	4822 130 10488	S3G
6921	5322 130 30684	1N4002RL

7400	4822 130 60511	BC847B
7500	4822 209 31981	SAA6579T
7501	4822 209 83159	LA2000
7502	4822 209 32742	TL074IN
7602	4822 209 90404	TDA7374B
7603	4822 209 90404	TDA7374B
7604	5322 130 60508	BC857B
7605	4822 130 60511	BC847B
7700	4822 209 15788	P83CE558EFB/120
7704	4822 900 11167	ST24W16B6/22DC942/62
7706	5322 209 11461	HEF4521BT
7800	4822 209 32745	TEA6320
7803	4822 130 60511	BC847B
7804	5322 130 60508	BC857B
7900	4822 130 40995	BD438
7901	4822 209 32866	L7805ABV
7902	5322 130 60508	BC857B
7903	4822 130 60511	BC847B
7904	4822 130 40995	BD438
7905	4822 130 60511	BC847B
7906	4822 130 41691	BC556B
7907	4822 130 60511	BC847B
7908	4822 130 41691	BC556B
7909	4822 130 60511	BC847B
7910	4822 209 33029	TDA3602/N3
7911	5322 130 60508	BC857B
7913	5322 130 60508	BC857B
7918	4822 130 60511	BC847B
7919	4822 130 40982	BD437
7920	4822 130 60511	BC847B
7921	4822 209 12628	HEF4044BT

FRONT PWB

2961	4822 126 13196	100nF 10% X7R 25V 0805
2962	4822 126 13196	100nF 10% X7R 25V 0805
2963	4822 126 13196	100nF 10% X7R 25V 0805
2966	4822 126 13196	100nF 10% X7R 25V 0805
2968	4822 126 13196	100nF 10% X7R 25V 0805

3901	4822 051 20102	1KΩ 5% 0,1W
3902	4822 051 20122	1K20 5% 0,1W
3905	4822 051 20102	1KΩ 5% 0,1W
3906	4822 051 20122	1K20 5% 0,1W
3909	4822 051 20821	820Ω 5% 0,1W
3910	4822 051 20821	820Ω 5% 0,1W
3912	4822 051 20821	820Ω 5% 0,1W
3913	4822 051 20821	820Ω 5% 0,1W
3915	4822 051 20821	820Ω 5% 0,1W
3916	4822 051 20821	820Ω 5% 0,1W
3919	4822 051 20122	1K20 5% 0,1W
3920	4822 051 20122	1K20 5% 0,1W
3922	4822 051 20153	15KΩ 5% 0,1W
3923	4822 051 20153	15KΩ 5% 0,1W
3932	4822 051 20008	0Ω JUMP. (0805)
3936	4822 051 20271	270Ω 5% 0,1W
3941	4822 051 20153	15KΩ 5% 0,1W
3945	4822 051 20153	15KΩ 5% 0,1W
3946	4822 051 20153	15KΩ 5% 0,1W
3947	4822 051 20153	15KΩ 5% 0,1W
3948	4822 051 20153	15KΩ 5% 0,1W
3949	4822 051 20153	15KΩ 5% 0,1W
3960	4822 051 20471	470Ω 5% 0,1W
3961	4822 051 20109	10Ω 5% 0,1W
3962	4822 117 11503	220R 1% 0.1W
3963	4822 051 20331	330Ω 5% 0,1W
3964	4822 051 20331	330Ω 5% 0,1W
3967	4822 117 10834	47KΩ 1% 0,1W
3968	4822 051 20153	15KΩ 5% 0,1W
3970	4822 051 20104	100KΩ 5% 0,1W
3971	4822 051 20109	10Ω 5% 0,1W
3973	4822 051 20153	15KΩ 5% 0,1W
3974	4822 051 20153	15KΩ 5% 0,1W
3975	4822 117 11503	220R 1% 0.1W
3977	4822 117 11503	220R 1% 0.1W

5961	4822 242 81959	CST11.5MTW

6901	4822 130 83963	LED LO3360
6902	4822 130 83963	LED LO3360
6903	4822 130 83963	LED LO3360
6904	4822 130 83963	LED LO3360
6905	4822 130 83963	LED LO3360
6906	4822 130 83963	LED LO3360
6907	4822 130 83963	LED LO3360
6908	4822 130 83963	LED LO3360
6909	4822 130 83963	LED LO3360
6910	4822 130 83963	LED LO3360
6911	4822 130 83963	LED LO3360
6912	4822 130 83963	LED LO3360
6913	4822 130 83963	LED LO3360
6914	4822 130 83963	LED LO3360
6915	4822 130 83963	LED LO3360
6916	4822 130 83963	LED LO3360
6917	4822 130 83963	LED LO3360
6925	4822 130 83963	LED LO3360
6961	4822 130 83757	BAS216
6963	4822 130 10185	UDZ5.6B
6964	4822 130 10185	UDZ5.6B

7925	4822 130 60511	SM TRANS BC847B
7926	4822 130 60511	SM TRANS BC847B
7927	4822 130 60511	SM TRANS BC847B
7961	4822 209 15789	P83CE528EFB/026

Miscellaneous

1001	4822 267 50838	CONNECTOR 14P
1200	4822 242 72579	CSA4,00MG-TF01
1300	4822 242 81609	LN-G95-307 (16,9344MHZ)

⊣⊢

2000	5322 122 32654	22nF 10% X7R 63V
2001	5322 122 32654	22nF 10% X7R 63V
2002	5322 122 32268	470pF 10% 50V
2003	5322 122 34123	1nF 10% X7R 50V
2005	4822 124 80453	100µF20% 10V
2006	4822 122 33575	220pF 5%NPO 50V
2007	4822 126 13196	100nF 10% X7R 25V 0805
2008	4822 122 33575	220pF 5%NPO 50V
2009	4822 121 51436	820nF 10% 63V
2010	4822 122 33127	2,2nF 10% X7R 63V
2011	4822 122 32542	47nF 10% X7R 63V
2012	5322 122 32531	100pF 5% NP0 50V
2013	5322 122 34098	10nF 10% X7R 63V
2014	5322 122 34123	1nF 10% X7R 50V
2015	4822 126 12104	12nF 5% X7R 63V
2016	5322 122 32654	22nF 10% X7R 63V
2017	4822 126 13196	100nF 10% X7R 25V 0805
2018	5322 122 32654	22nF 10% X7R 63V
2020	4822 126 13196	100nF 10% X7R 25V 0805
2021	4822 126 13196	100nF 10% X7R 25V 0805
2023	4822 126 13057	220nF 10% X7R 25V
2024	4822 126 14173	150nF 10% X7R 25V
2025	4822 126 13196	100nF 10% X7R 25V 0805
2100	4822 126 13196	100nF 10% X7R 25V 0805
2104	4822 124 80453	100µF 20% 10V
2105	4822 122 31981	33nF +-0,5 50V
2106	4822 126 13196	100nF 10% X7R 25V 0805
2107	4822 126 13196	100nF 10% X7R 25V 0805
2108	5322 122 32654	22nF 10% X7R 63V
2109	5322 122 32654	22nF 10% X7R 63V
2110	4822 126 13196	100nF 10% X7R 25V 0805
2112	5322 122 34098	10nF 10% X7R 63V
2113	4822 126 13196	100nF 10% X7R 25V 0805
2114	4822 126 13196	100nF 10% X7R 25V 0805
2115	4822 126 13196	100nF 10% X7R 25V 0805
2116	4822 126 14174	5.6nF 2% NP0 63V
2117	4822 126 13196	100nF 10% X7R 25V 0805
2118	5322 126 12698	4.7nF 2%
2119	4822 126 14175	910pF 2% NP0 50V
2121	4822 126 13196	100nF 10% X7R 25V 0805
2122	4822 126 13057	220nF 10% X7R 25V
2123	4822 126 13057	220nF 10% X7R 25V
2200	4822 126 13196	100nF 10% X7R 25V 0805
2201	4822 126 13057	220nF 10% X7R 25V
2202	5322 122 32659	33pF 5% 50V
2203	5322 122 32659	33pF 5% 50V
2204	4822 124 80453	100µF 20% 10V
2206	4822 126 13057	220nF 10% X7R 25V
2300	4822 122 33127	2,2nF 10% X7R 63V
2301	5322 122 32452	47pF 5% NP0 63V
2304	4822 126 13196	100nF 10% X7R 25V 0805
2305	4822 124 80453	100µF 20% 10V
2306	5322 122 32654	22nF 10% X7R 63V
2307	4822 122 33575	220pF 5%NPO 50V
2308	4822 126 13196	100nF 10% X7R 25V 0805
2309	4822 124 23582	220µF 10V
2313	5322 122 32452	47pF 5% NP0 63V
2314	5322 122 32452	47pF 5% NP0 63V
2315	4822 126 13057	220nF 10% X7R 25V
2316	5322 126 10223	4,7nF 10% X7R 63V
2317	5322 126 10223	4,7nF 10% X7R 63V
2320	4822 126 13196	100nF 10% X7R 25V 0805
2321	4822 126 13196	100nF 10% X7R 25V 0805
2322	4822 126 13196	100nF 10% X7R 25V 0805
2323	4822 126 13057	220nF 10% X7R 25V
2324	4822 124 80453	100µF20% 10V
2325	4822 124 80453	100µF20% 10V
2326	4822 126 13057	220nF 10% X7R 25V
2327	4822 126 13057	220nF 10% X7R 25V
2328	5322 122 32654	22nF 10% X7R 63V
2329	5322 122 32654	22nF 10% X7R 63V
2332	4822 124 23582	220µF 10V
2333	4822 126 13196	100nF 10% X7R 25V 0805
2334	4822 126 13196	100nF 10% X7R 25V 0805
2336	5322 122 32654	22nF 10% X7R 63V
2337	4822 126 13196	100nF 10% X7R 25V 0805
2338	4822 126 13196	100nF 10% X7R 25V 0805
2339	4822 124 23282	1µF20% 50V
2340	4822 124 23282	1µF20% 50V
2341	4822 122 33127	2,2nF 10% X7R 63V
2342	4822 122 33127	2,2nF 10% X7R 63V
2344	4822 124 80453	100µF20% 10V
2345	5322 122 32654	22nF 10% X7R 63V
2346	5322 122 32268	470pF 10% 50V
2347	5322 122 32268	470pF 10% 50V
2348	5322 122 32531	100pF 5% NP0 50V
2349	5322 122 32531	100pF 5% NP0 50V
2400	4822 126 13196	100nF 10% X7R 25V 0805
2500	4822 126 13196	100nF 10% X7R 25V 0805
2501	4822 126 13196	100nF 10% X7R 25V 0805
2601	4822 124 80453	100µF20% 10V
2602	5322 122 32654	22nF 10% X7R 63V
2603	4822 124 80453	100µF20% 10V
2605	4822 124 80453	100µF20% 10V
2606	5322 122 32654	22nF µF 63V

-▭-

3000	4822 051 20472	4K70 5% 0,1W
3001	4822 051 20104	100KΩ 5% 0,1W
3002	4822 051 20229	22Ω 5% 0,1W
3003	4822 051 20229	22Ω 5% 0,1W
3004	4822 051 20101	100Ω 5% 0,1W
3005	4822 117 11383	12KΩ 1% 0,1W
3006	4822 051 20101	100Ω 5% 0,1W
3007	4822 051 20102	1KΩ 5% 0,1W
3008	4822 117 10507	24KΩ 1% 0.1W
3009	4822 117 11456	30KΩ 1% 0,1W
3010	4822 117 11449	2K2 1% 0,1W
3011	4822 051 20273	27KΩ 5% 0,1W
3012	4822 051 20224	220KΩ 5% 0,1W
3013	4822 117 11149	82KΩ 1% 0,1W
3014	4822 051 20478	4Ω7 5% 0,1W
3015	4822 117 10833	10KΩ 1% 0,1W
3016	4822 051 20229	22Ω 5% 0,1W
3017	4822 117 10965	18KΩ 1% 0,1W

3018	4822 117 11383	12KΩ 1% 0,1W
3019	4822 051 20229	22Ω 5% 0,1W
3020	4822 117 10507	24KΩ 1% 0.1W
3021	4822 051 20562	5K60 5% 0,1W
3022	4822 051 20223	22KΩ 5% 0,1W
3100	4822 051 20478	4Ω7 5% 0,1W
3101	4822 117 12804	5.6KΩ 0.1% 0.1W
3102	4822 050 22208	2R20 1% 0,6W
3103	4822 117 12804	5.6KΩ 0.1% 0.1W
3104	4822 051 20829	82Ω 5% 0,1W
3105	4822 117 12804	5.6KΩ 0.1% 0.1W
3106	4822 051 20229	22Ω 5% 0,1W
3107	4822 117 12804	5.6KΩ 0.1% 0.1W
3108	4822 051 20154	150KΩ 5% 0,1W
3109	4822 117 10965	18KΩ 1% 0,1W
3110	4822 117 11501	1K3 1% 0.1W
3111	4822 117 10833	10KΩ 1% 0,1W
3112	4822 051 20224	220KΩ 5% 0,1W
3113	4822 051 20223	22KΩ 5% 0,1W
3114	4822 117 10834	47KΩ 1% 0,1W
3115	4822 117 10965	18KΩ 1% 0,1W
3116	4822 051 20223	22KΩ 5% 0,1W
3120	4822 117 10833	10KΩ 1% 0,1W
3121	4822 117 10833	10KΩ 1% 0,1W
3200	4822 051 20223	22KΩ 5% 0,1W
3201	4822 051 20223	22KΩ 5% 0,1W
3202	4822 117 10834	47KΩ 1% 0,1W
3204	4822 051 20105	1MΩ 5% 0,1W
3205	4822 051 20478	4Ω7 5% 0,1W
3209	4822 051 20104	100KΩ 5% 0,1W
3210	4822 051 20104	100KΩ 5% 0,1W
3300	4822 117 11449	2K2 1% 0,1W
3301	4822 051 20223	22KΩ 5% 0,1W
3302	4822 051 20223	22KΩ 5% 0,1W
3303	4822 051 20478	4Ω7 5% 0,1W
3304	4822 117 11449	2K2 1% 0,1W
3305	4822 051 20478	4Ω7 5% 0,1W
3306	4822 051 20008	0Ω JUMP. (0805)
3311	4822 051 20105	1MΩ 5% 0,1W
3312	4822 117 10834	47KΩ 1% 0,1W
3313	4822 051 20182	1K80 5% 0,1W
3314	4822 051 20182	1K80 5% 0,1W
3319	4822 051 20229	22Ω 5% 0,1W
3320	4822 117 10834	47KΩ 1% 0,1W
3323	4822 051 20104	100KΩ 5% 0,1W
3325	4822 051 20229	22Ω 5% 0,1W
3326	4822 051 20229	22Ω 5% 0,1W
3327	4822 051 20102	1KΩ 5% 0,1W
3328	4822 051 20102	1KΩ 5% 0,1W
3329	4822 117 11456	30KΩ 1% 0,1W
3330	4822 117 11456	30KΩ 1% 0,1W
3331	4822 117 11456	30KΩ 1% 0,1W
3332	4822 117 11456	30KΩ 1% 0,1W
3333	4822 117 10833	10KΩ 1% 0,1W
3334	4822 051 20104	100KΩ 5% 0,1W
3335	4822 051 20104	100KΩ 5% 0,1W
3336	4822 117 10834	47KΩ 1% 0,1W
3400	4822 051 20154	150KΩ 5% 0,1W
3401	4822 117 10358	5K6 1% 0,1W
3402	4822 117 11383	12KΩ 1% 0,1W

3403	4822 117 11154	1KΩ 1% 0,1W
3404	4822 116 30426	4K7 3% 0.1W
3500	4822 051 20472	4K70 5% 0,1W
3501	4822 051 20102	1KΩ 5% 0,1W
3502	4822 051 20472	4K70 5% 0,1W
3504	4822 051 20229	22Ω 5% 0,1W
3505	4822 051 20229	22Ω 5% 0,1W
3506	4822 051 20472	4K70 5% 0,1W
3507	4822 051 20472	4K70 5% 0,1W
3508	4822 117 11449	2K2 1% 0,1W
3509	4822 051 20562	5K60 5% 0,1W
3512	4822 117 10833	10KΩ 1% 0,1W
3513	4822 117 10833	10KΩ 1% 0,1W
3514	4822 051 20334	330KΩ 5% 0,1W
3515	4822 051 20334	330KΩ 5% 0,1W
3517	4822 051 20479	47Ω 5% 0,1W
3520	4822 051 20008	0Ω JUMP. (0805)
3601	4822 051 20332	3K30 5% 0,1W
3603	4822 051 20478	4Ω7 5% 0,1W
3605	4822 051 20332	3K30 5% 0,1W
3606	4822 050 22208	2R20 1% 0,6W
3607	4822 051 20681	680Ω 5% 0,1W
4001	4822 051 20008	0Ω JUMP. (0805)

6200	5322 130 31928	BAS16
6501	5322 130 34337	BAV99
6502	5322 130 34337	BAV99
6503	4822 130 42488	BYD33D
6504	4822 130 42488	BYD33D
6601	5322 130 33671	BZX84-C6V2
6602	5322 130 80255	BZX84-C8V2
6603	4822 130 61219	BZX79-B10

7000	4822 209 30146	L2722
7001	4822 209 73234	TDA8808T/C3
7003	4822 130 40959	BC547B
7100	4822 209 62059	TCA0372DP1
7101	4822 209 31973	TDA8809T/C2/S1/13
7201	4822 209 32889	MC68HC05C8CFB
7722	4822 209 32889	MC68HC05C8CFB
7202	5322 209 14481	HEF4053BT
7203	4822 130 60511	BC847B
7302	4822 209 30388	SAA7341GP
7303	4822 209 31553	FCB61C65LL-70T
7304	4822 209 90327	L2726
7305	5322 130 60508	BC857B
7306	4822 209 83163	LM833N
7400	5322 209 12343	LM2904D
7500	4822 209 30146	L2722
7600	5322 130 44647	BC368

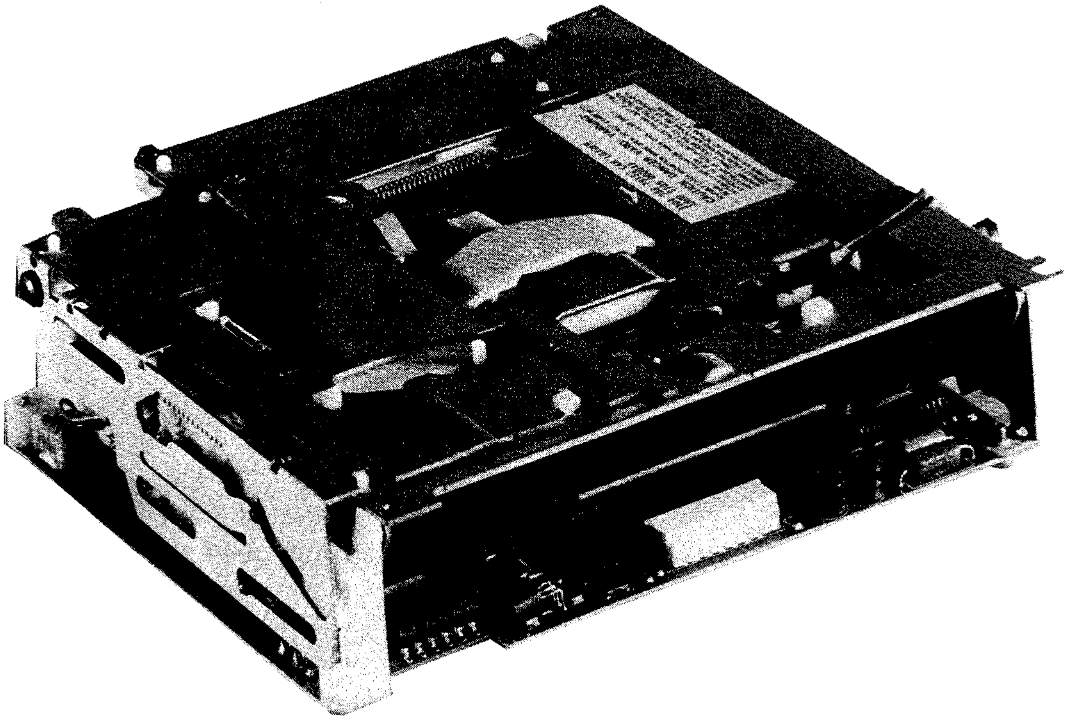
CD-mechanism CDM-9 MOD-4

Service
Service
Service

VIDE-V16131

Service Manual

12 V ⊖



**CLASS 1
LASER PRODUCT**

Published by Philips Car Systems

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PCS 67 611

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SPEZIFICATION

Operating voltage:	10 V - 16 V
Operating temperature:	15°C - +70°C
Accesstime:	max. 2sec (inner to outer track)
Load- / Eject- time:	max. 4sec
Mounting angle (see page 5):	-10° - +20° +30° - +60° (optional)
Playability:	
- Testdisc 5A (4822 397 30096):	wedges 900m (track 9, time 19'59) blackdots - 800µm (track 17, time 40'04) fingerprints (track 18 + 19, time 42'46 + 45'06)
- Scewdisc (4822 701 11922):	first 10min without interruptions
- Eccentricity disc (4822 701 11923):	first 10min without interruptions

NOTE: Switch off power supply before connect and disconnect CDM 9 - Module and set (danger of shortcircuit)!

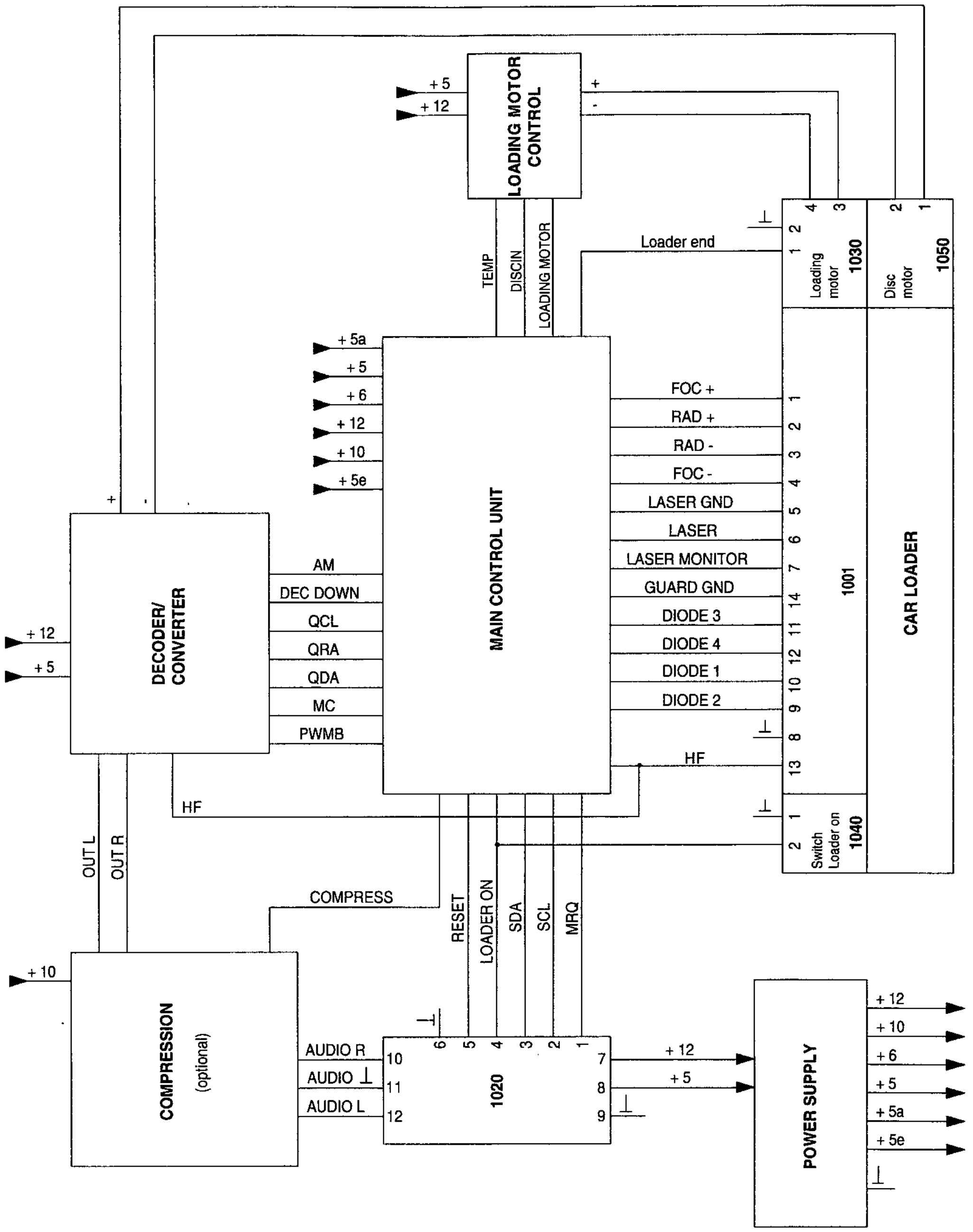
NOTE: Use the coded plugs and sockets to build the needed extension cables.

NOTE: The chassis of CDM 9 is not grounded when separated from the set.

NOTE: Only PLAY but no LOAD and EJECT can be realized in upside-down position.

NOTE: Measurements are done in PLAY (P), STANDBY (S) and DISC OUT (O), DC → GND.

Wiring Diagram

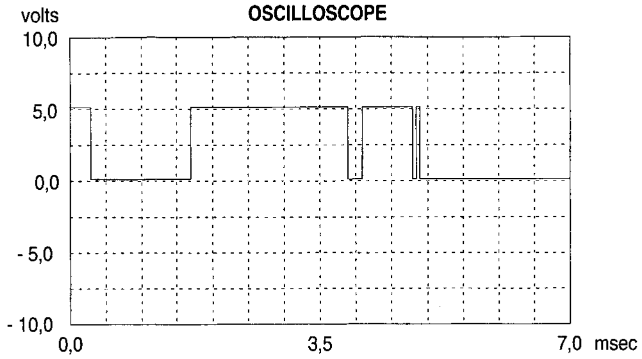

LOADING MOTOR CONTROL
+ 5
+ 12
+
-
TEMP
DISCIN
LOADING MOTOR
Loader end
1 2
4 3
Loading motor
1030
2 1
Disc motor
1050
+ 5a
+ 5
+ 6
+ 12
+ 10
+ 5e
MAIN CONTROL UNIT
FOC +
RAD +
RAD -
FOC -
LASER GND
LASER
LASER MONITOR
GUARD GND
DIODE 3
DIODE 4
DIODE 1
DIODE 2
HF
1 2 3 4 5 6 7 14 11 12 10 9 8 13
1001
CAR LOADER
DECODER/ CONVERTER
+ 12
+ 5
+
AM
DEC DOWN
QCL
QRA
QDA
MC
PWMB
HF
OUT L
OUT R
Switch Loader on
1040
COMPRESS
RESET
LOADER ON
SDA
SCL
MRQ
+ 10
COMPRESSION
(optional)
AUDIO R
AUDIO ⊥
AUDIO L
10
11
12
6 5 4 3 2 1
1020
7
8
9
+ 12
+ 5
POWER SUPPLY
+ 12
+ 10
+ 6
+ 5
+ 5a
+ 5e

all values measured in PLAY (P), DC - GND

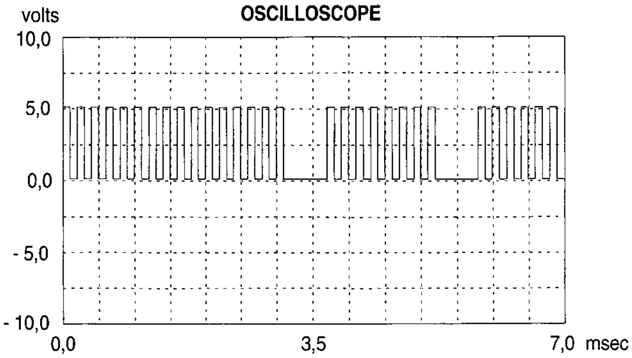
+ 5 = 5,0 V
+ 5a = 4,7 V
+ 5e = 5,0 V
+ 6 = 6,0 V
+10 = 8,4 V
+12 = 12,0 V
AUDIO-LEVEL (L+R) = 0,0 V (1,2 V_{eff})
MRQ = see oscillogram MRQ
SCL = see oscillogram SCL
SDA = see oscillogram SDA
LOADER ON = 5,0 V
RESET = 30 mV
COMPRESS = HIGH when COMPRESS OFF, LOW when COMPRESS ON
HF = 3,1 V (POS.1001, PIN 13)
QDA = see oscillogram QDA
QRA = see oscillogram QRA
QCL = see oscillogram QCL
PWMB = 5,0 V (intermittend data when focussing)
DEC. DOWN = 0,0 V

AM = 5,0 V
MC = see oscillogram MC
TEMP = 3,9 V (0,0 V if T ≥ 70°C)
DISC MOTOR + = 5,4 V
DISC MOTOR - = 4,8 V
LOADING MOTOR = 3,4 V (5,0 V load, 0,0 V eject)
LOADING MOTOR + = 3,7 V (0,9 V load, 6,3 V eject)
LOADING MOTOR - = 3,7 V (6,3 V load, 0,9 V eject)
LOADER END = 0,0 V (5,0 V CD OFF)
DISCIN = 3,8 V (0,0 V during load)
FOC + = 2,4 V
FOC - = 2,6 V
RAD + = see oscillogram RAD
RAD - = see oscillogram RAD
LASER GND = 0,0 V
LASER = 2,0 V
LASER MONITOR = 0,2 V
GUARD GND = 0,0 V
DIODE 1 = 1,3 V
DIODE 2 = 1,3 V
DIODE 3 = 1,3 V
DIODE 4 = 1,3 V

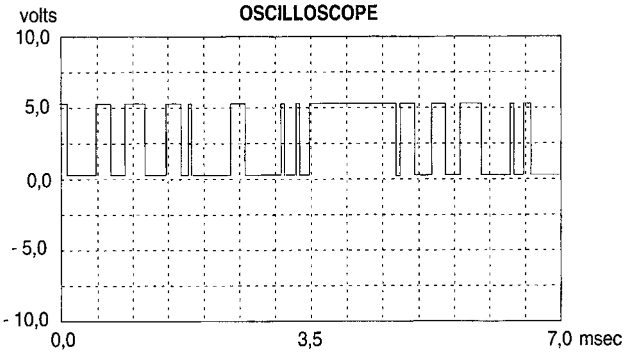
MRQ



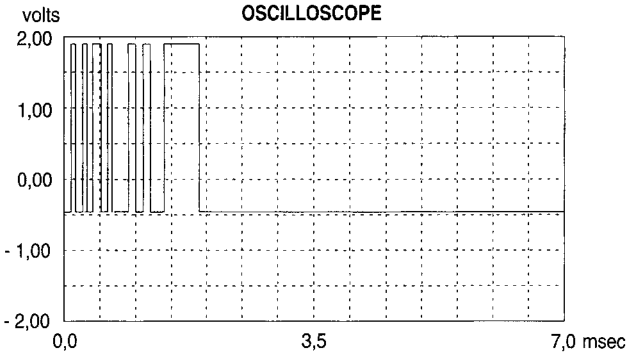
SCL



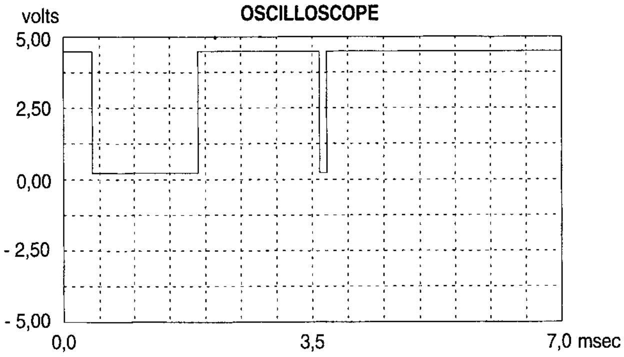
SDA



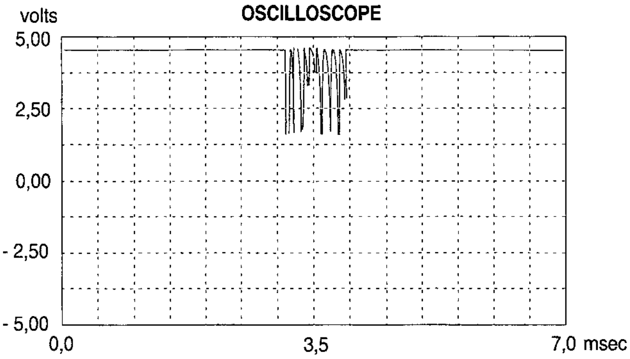
QDA



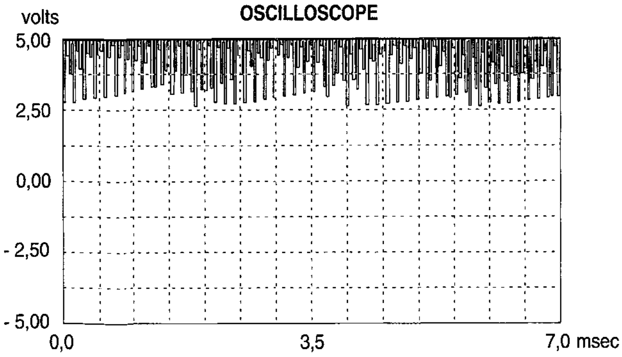
QRA



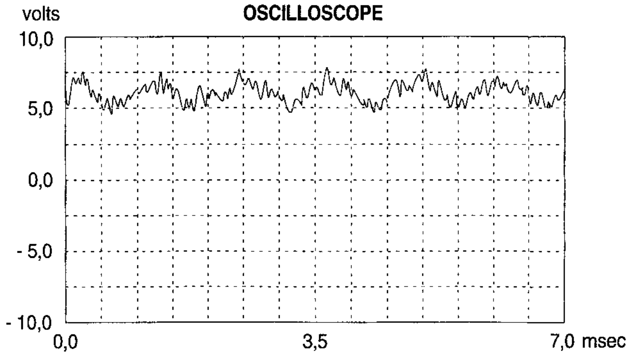
QCL



MC

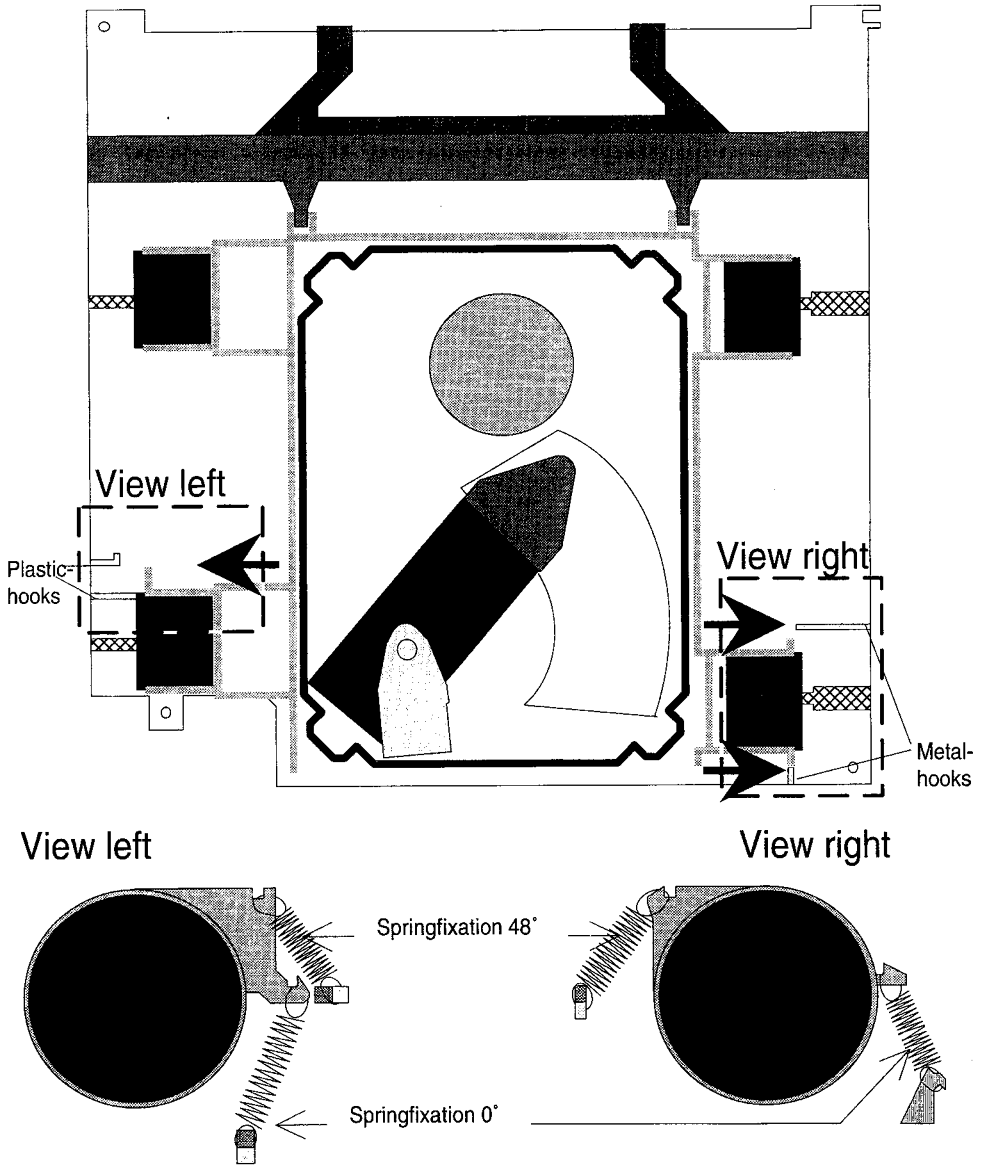


RAD

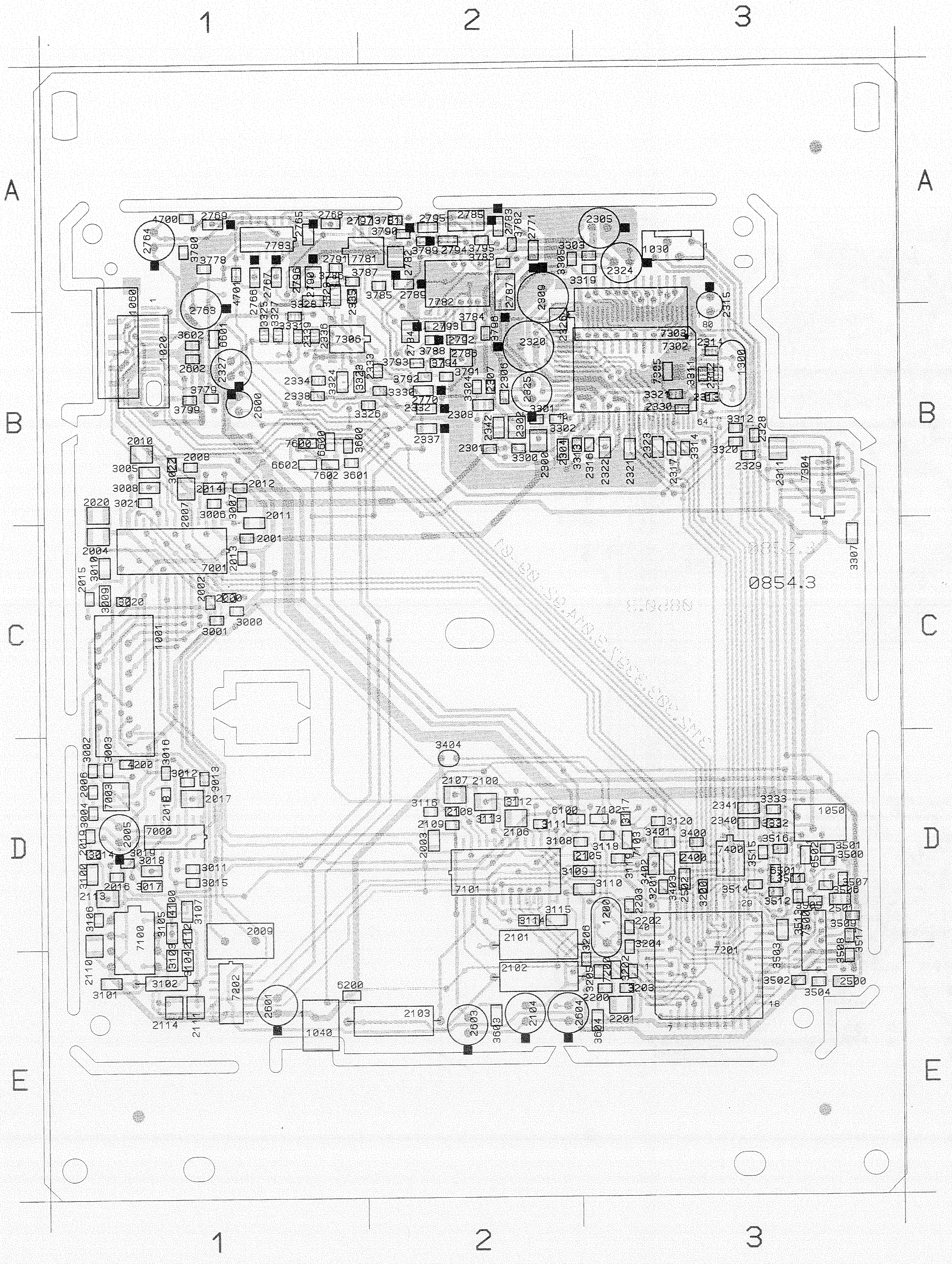


Adaptation of CDM 9 for playability at a mounting angle of 30° to 60°

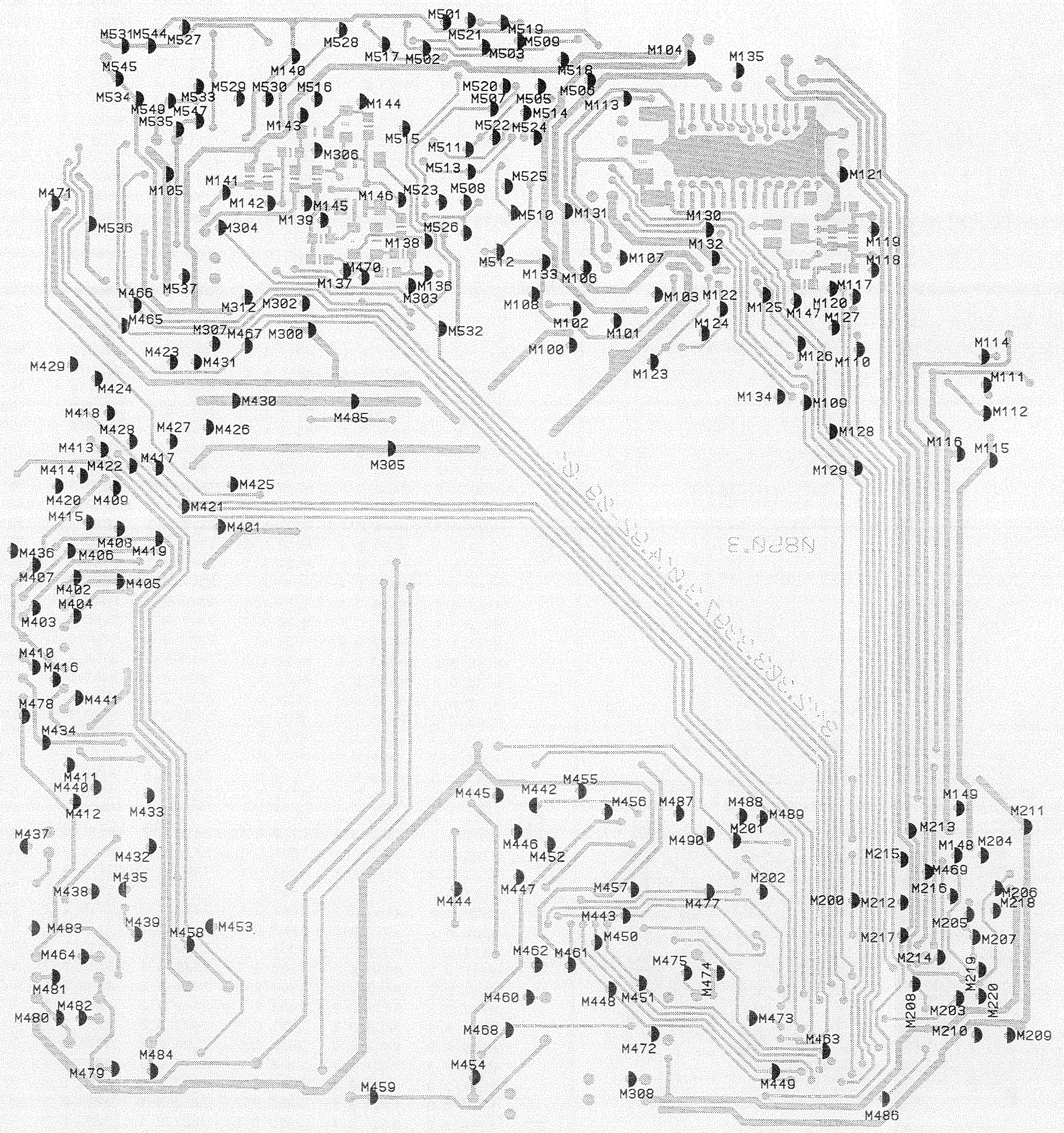
Take the rear springs from the suspensions and put them in the additional fixation hooks as shown in the figure below (see also service-information A92 - 402).


View left
Plastic-hooks
View right
Metal-hooks
View left
View right
Springfixation 48°
Springfixation 0°

Technician remarks



M100 B 2	M307 B 1	M475 D 3	2014 B 1	2767 A 1	3307 C 3	7000 D 1
M101 B 2	M308 E 2	M477 D 3	2015 C 1	2768 A 1	3311 B 3	7001 C 1
M102 B 2	M312 B 1	M478 D 1	2016 D 1	2769 A 1	3312 B 3	7003 D 1
M103 B 2	M401 C 1	M479 E 1	2017 D 1	2770 B 2	3313 B 2	7100 D 1
M104 A 3	M402 C 1	M480 E 1	2018 D 1	2771 A 2	3314 B 3	7101 D 2
M105 B 1	M403 C 1	M481 D 1	2019 D 1	2782 A 2	3319 A 3	7102 D 3
M106 B 2	M404 C 1	M482 E 1	2020 B 1	2783 A 2	3320 B 3	7103 D 3
M107 B 2	M405 C 1	M483 D 1	2100 D 2	2784 B 2	3321 B 3	7200 E 3
M108 B 2	M406 C 1	M484 E 1	2101 D 2	2785 A 2	3323 B 1	7201 E 3
M109 B 3	M407 C 1	M485 B 1	2102 E 2	2786 B 2	3324 B 1	7202 E 1
M110 B 3	M408 C 1	M486 E 3	2103 E 1	2787 A 2	3325 B 1	7302 B 3
M111 B 3	M409 C 1	M487 D 3	2104 E 2	2789 A 2	3326 B 2	7303 B 3
M112 B 3	M410 C 1	M488 D 3	2105 D 2	2790 A 1	3327 B 1	7304 B 3
M113 A 2	M411 D 1	M489 D 3	2106 D 2	2791 A 1	3328 A 1	7305 B 3
M114 B 3	M412 D 1	M490 D 3	2107 D 2	2792 B 2	3329 A 1	7306 B 1
M115 C 3	M413 C 1	M501 A 2	2108 D 2	2793 B 2	3330 B 2	7400 D 3
M116 C 3	M414 C 1	M502 A 2	2109 D 2	2794 A 2	3331 B 1	7500 D 3
M117 B 3	M415 C 1	M503 A 2	2110 D 1	2795 A 2	3332 D 3	7600 B 1
M118 B 3	M416 C 1	M505 A 2	2111 E 1	2796 A 1	3333 D 3	7602 B 1
M119 B 3	M417 C 1	M506 A 2	2112 D 1	2797 A 2	3400 D 3	7781 A 2
M120 B 3	M418 B 1	M507 A 2	2113 D 1	3000 C 1	3401 D 3	7782 A 2
M121 B 3	M419 C 1	M508 B 2	2114 E 1	3001 C 1	3402 D 3	7783 A 1
M122 B 3	M420 C 1	M509 A 2	2200 E 3	3002 D 1	3403 D 3	
M123 B 2	M421 C 1	M510 B 2	2201 E 3	3003 D 1	3404 D 2	
M124 B 3	M422 C 1	M511 B 2	2202 D 3	3004 D 1	3500 D 3	
M125 B 3	M423 B 1	M512 B 2	2203 D 3	3005 B 1	3501 D 3	
M126 B 3	M424 B 1	M513 B 2	2300 B 2	3006 B 1	3502 E 3	
M127 B 3	M425 C 1	M514 A 2	2301 B 2	3007 B 1	3503 D 3	
M128 C 3	M426 B 1	M515 A 2	2302 B 2	3008 B 1	3504 E 3	
M129 C 3	M427 C 1	M516 A 1	2304 B 2	3009 C 1	3505 D 3	
M130 B 3	M428 C 1	M517 A 2	2305 A 3	3010 C 1	3506 D 3	
M131 B 2	M429 B 1	M518 A 2	2306 B 2	3011 D 1	3507 D 3	
M132 B 3	M430 B 1	M519 A 2	2307 B 2	3012 D 1	3508 E 3	
M133 B 2	M431 B 1	M520 A 2	2308 B 2	3013 D 1	3509 D 3	
M134 B 3	M432 D 1	M521 A 2	2309 A 2	3014 D 1	3511 D 3	
M135 A 3	M433 D 1	M522 A 2	2311 B 3	3015 D 1	3512 D 3	
M136 B 2	M434 D 1	M523 B 2	2312 B 3	3016 D 1	3513 D 3	
M137 B 1	M435 D 1	M524 A 2	2313 B 3	3017 D 1	3514 D 3	
M138 B 2	M436 C 1	M525 B 2	2314 B 3	3018 D 1	3515 D 3	
M139 B 1	M437 D 1	M526 B 2	2315 B 3	3019 D 1	3516 D 3	
M140 A 1	M438 D 1	M527 A 1	2316 B 3	3020 C 1	3517 D 3	
M141 B 1	M439 D 1	M528 A 1	2317 B 3	3021 B 1	3600 B 1	
M142 B 1	M440 D 1	M529 A 1	2320 B 2	3022 B 1	3601 B 1	
M143 A 1	M441 C 1	M530 A 1	2321 B 3	3100 D 1	3602 B 1	
M144 A 1	M442 D 2	M531 A 1	2322 B 3	3101 E 1	3603 E 2	
M145 B 1	M443 D 2	M532 B 2	2323 B 3	3102 E 1	3604 E 3	
M146 B 2	M444 D 2	M533 A 1	2324 A 3	3103 E 1	3778 A 1	
M147 B 3	M445 D 2	M534 A 1	2325 B 2	3104 E 1	3779 B 1	
M148 D 3	M446 D 2	M535 A 1	2326 B 2	3105 D 1	3780 A 1	
M149 D 3	M447 D 2	M536 B 1	2327 B 1	3106 D 1	3781 A 2	
M200 D 3	M448 D 2	M537 B 1	2328 B 3	3107 D 1	3782 A 2	
M201 D 3	M449 E 3	M544 A 1	2329 B 3	3108 D 2	3783 A 2	
M202 D 3	M450 D 2	M545 A 1	2330 B 3	3109 D 3	3784 B 2	
M203 D 3	M451 D 2	M547 A 1	2332 B 2	3110 D 3	3785 A 2	
M204 D 3	M452 D 2	M549 A 1	2333 B 2	3111 D 2	3786 A 1	
M205 D 3	M453 D 1	1001 C 1	2334 B 1	3112 D 2	3787 A 1	
M206 D 3	M454 E 2	1020 B 1	2335 A 1	3113 D 2	3788 B 2	
M207 D 3	M455 D 2	1030 A 3	2336 B 1	3114 D 2	3789 A 2	
M208 D 3	M456 D 2	1040 E 1	2337 B 2	3115 D 2	3790 A 2	
M209 E 3	M457 D 2	1050 D 3	2338 B 1	3116 D 2	3791 B 2	
M210 E 3	M458 D 1	1060 A 1	2339 B 1	3117 D 3	3792 B 2	
M211 D 3	M459 E 1	1200 D 3	2340 D 3	3118 D 3	3793 B 2	
M212 D 3	M460 D 2	1300 B 3	2341 D 3	3119 D 3	3794 B 2	
M213 D 3	M461 D 2	2000 C 1	2342 B 2	3120 D 3	3795 A 2	
M214 D 3	M462 D 2	2001 C 1	2400 D 3	3200 D 3	3796 B 2	
M215 D 3	M463 E 3	2002 C 1	2500 E 3	3201 D 3	3799 B 1	
M216 D 3	M464 D 1	2003 D 2	2501 D 3	3202 E 3	4100 D 1	
M217 D 3	M465 B 1	2004 C 1	2502 D 3	3203 E 3	4200 D 1	
M218 D 3	M466 B 1	2005 D 1	2600 B 1	3204 E 3	4700 A 1	
M219 D 3	M467 B 1	2006 D 1	2601 E 1	3205 E 3	4701 A 1	
M220 D 3	M468 E 2	2007 B 1	2602 B 1	3206 E 3	6100 D 2	
M300 B 1	M469 D 3	2008 B 1	2603 E 2	3300 B 2	6200 E 1	
M302 B 1	M470 B 1	2009 D 1	2604 E 2	3301 B 2	6501 D 3	
M303 B 2	M471 B 1	2010 B 1	2763 A 1	3302 B 2	6502 D 3	
M304 B 1	M472 E 2	2011 B 1	2764 A 1	3303 A 3	6600 B 1	
M305 C 2	M473 E 3	2012 B 1	2765 A 1	3304 B 2	6601 B 1	
M306 B 1	M474 D 3	2013 C 1	2766 A 1	3305 A 2	6602 B 1	


M501
M519
M521
M509
M531
M544
M527
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M502
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M104
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M545
M140
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M113
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M143
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M306
M511
M513
M121
M471
M105
M141
M525
M142
M145
M146
M523
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M131
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M536
M304
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M526
M132
M119
M138
M512
M107
M118
M470
M133
M106
M466
M537
M137
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M312
M302
M303
M103
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M125
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M147
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M465
M108
M102
M124
M307
M467
M300
M532
M101
M423
M100
M126
M110
M114
M431
M429
M123
M111
M424
M134
M109
M430
M112
M418
M485
M428
M427
M426
M128
M413
M116
M115
M417
M305
M414
M422
M129
M425
M420
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M421
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M401
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M436
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M478
M441
M434
M411
M440
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M149
M445
M442
M211
M412
M433
M456
M487
M488
M489
M201
M213
M437
M446
M490
M148
M204
M452
M215
M432
M469
M435
M202
M447
M457
M216
M438
M206
M444
M200
M212
M218
M477
M443
M205
M439
M453
M483
M458
M450
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M207
M462
M461
M214
M464
M475
M474
M219
M481
M460
M208
M220
M448
M451
M203
M482
M480
M473
M210
M209
M468
M463
M472
M484
M454
M479
M449
M459
M308
M486

POS. 7302 SAA 7341

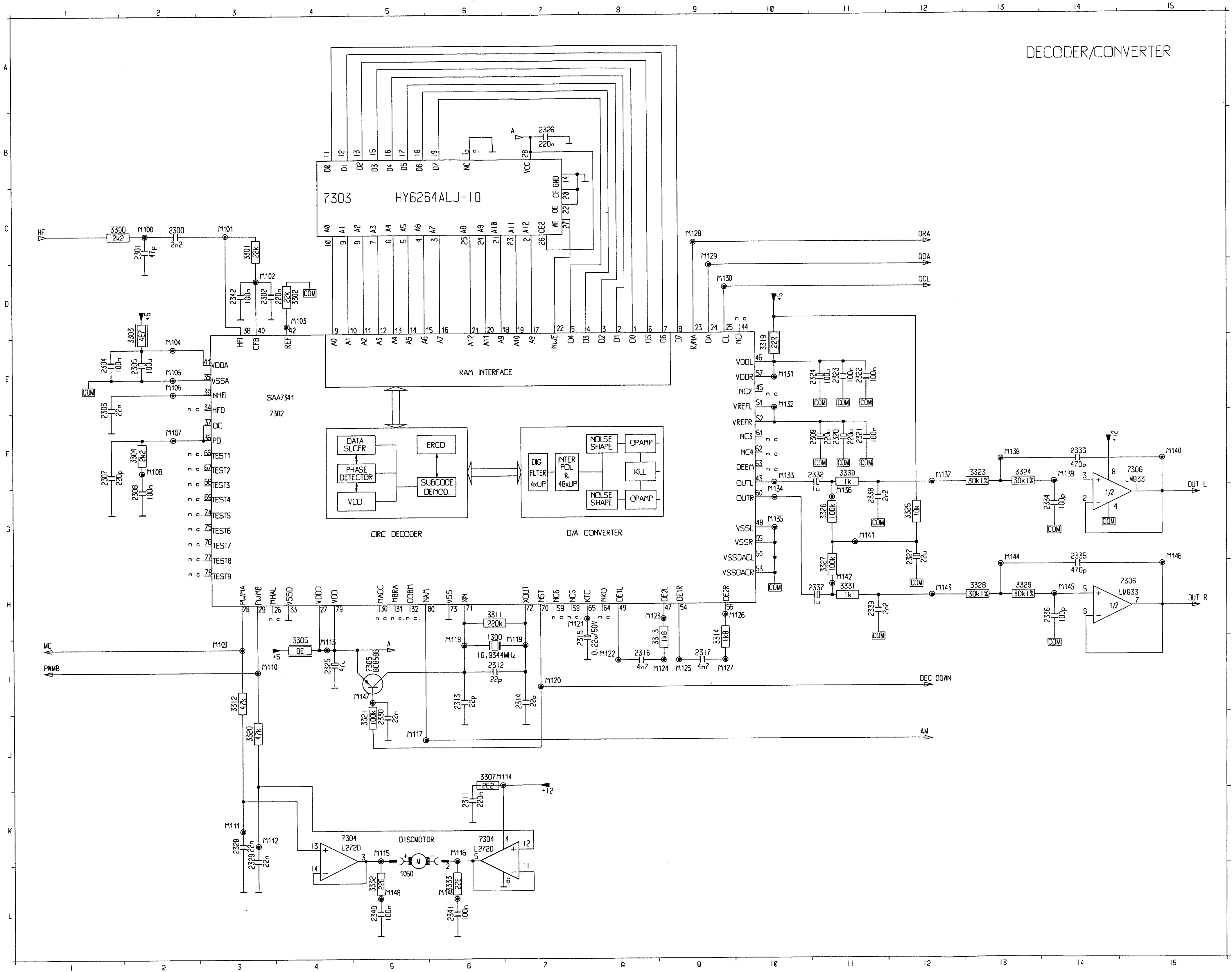
1 - 22: DATA
M128 23: see QRA (P) / 40 mV (S,O)
M129 24: see QDA (P) / 0,0 V (S,O)
M130 25: see QCL (P) / 5,0 V (S,O)
26: nc
M113 27: 5,0 V (P,S,O)
M109 28: see MC (P) / 0,0 V (S,O)
M110 29: 5,0 V (P,S,O)
30 - 32: nc
33: GND
34: nc
35: GND
M107 36: 2,8 V (P) / 130 mV (S,S-O) / 5,0 V (P-O)
M107 37: 2,8 V (P) / 130 mV (S,S-O) / 5,0 V (P-O)
M101 38: 2,5 V (P,S,O)
M106 39: 2,5 V (P,S,O)
M102 40: 2,5 V (P,S,O)
M104 41: 5,0 V (P,S,O)
M103 42: 2,2 V (P,S,O)
M133 43: 2,2 V (P,S,O)
44 - 45: nc
M131 46: 4,4 V (P,S,O)
M123 47: 2,2 V (P) / 2,3 V (S,O)
48: GND
M122 49: AF (P) / 0,0 V (S,O)
50: GND
M132 51: 2,2 V (P,S,O)
M132 52: 2,2 V (P,S,O)
53: GND
M125 54: AF (P) / 0,0 V (S,O)
55: GND
M126 56: 2,2 V (P) / 2,3 V (S,O)
M131 57: 4,4 V (P,S,O)
58 - 59: nc
M134 60: 2,2 V (P,S,O)
61 - 64: nc
M121 65: 5,0 V (P,S,O)
66 - 69: nc
M120 70: DEC.DOWN
M118 71: 2,2 V (P) / 5,0 V (S,O)
M119 72: 2,3 V (P) / 0,0 V (S,O)
73: GND
74 - 78: nc
M113 79: 5,0 V (P,S,O)
M117 80: 5,0 V (P,S,O)

POS. 7303 HY 6264 ALJ-10

1: GND
2 - 13: DATA
14: GND
15 - 19: DATA
20: GND
21: DATA
22: GND
23 - 25: DATA
26: 5,0 V (P,S,O)
27: DATA
28: 5,0 V (P,S,O)

POS. 7304 L 272D

1: nc
2: nc
M115 3: 4,2 V (P) / 5,0 V (S,O)
M114 4: 12,0 V (P,S,O)
M116 5: 5,0 V (P,S,O)
6: GND
7: nc
8: nc
9: nc
10: nc
M116 11: 5,0 V (P,S,O)
M112 12: 5,0 V (P,S,O)
M111 13: 4,2 V (P) / 5,0 V (S,O)
M115 14: 4,2 V (P) / 5,0 V (S,O)
15: nc
16: nc


DECODER/CONVERTER
7303 HY6264ALJ-10
SAA7341 7302
RAM INTERFACE
DATA SLICER
PHASE DETECTOR
VCO
ERCO
SUBCODE DEMOD.
CIRC DECODER
DIG FILTER 4xUP
INTER POL & 48xUP
NOISE SHAPE
OPAMP
KILL
D/A CONVERTER
HF
QRA
QDA
QCL
MC
PWMB
DEC DOWN
AM
OUT L
OUT R
7306 LM833
7305 BC858
7304 L272D
DISCMOTOR
1050
16,9344MHz
COM

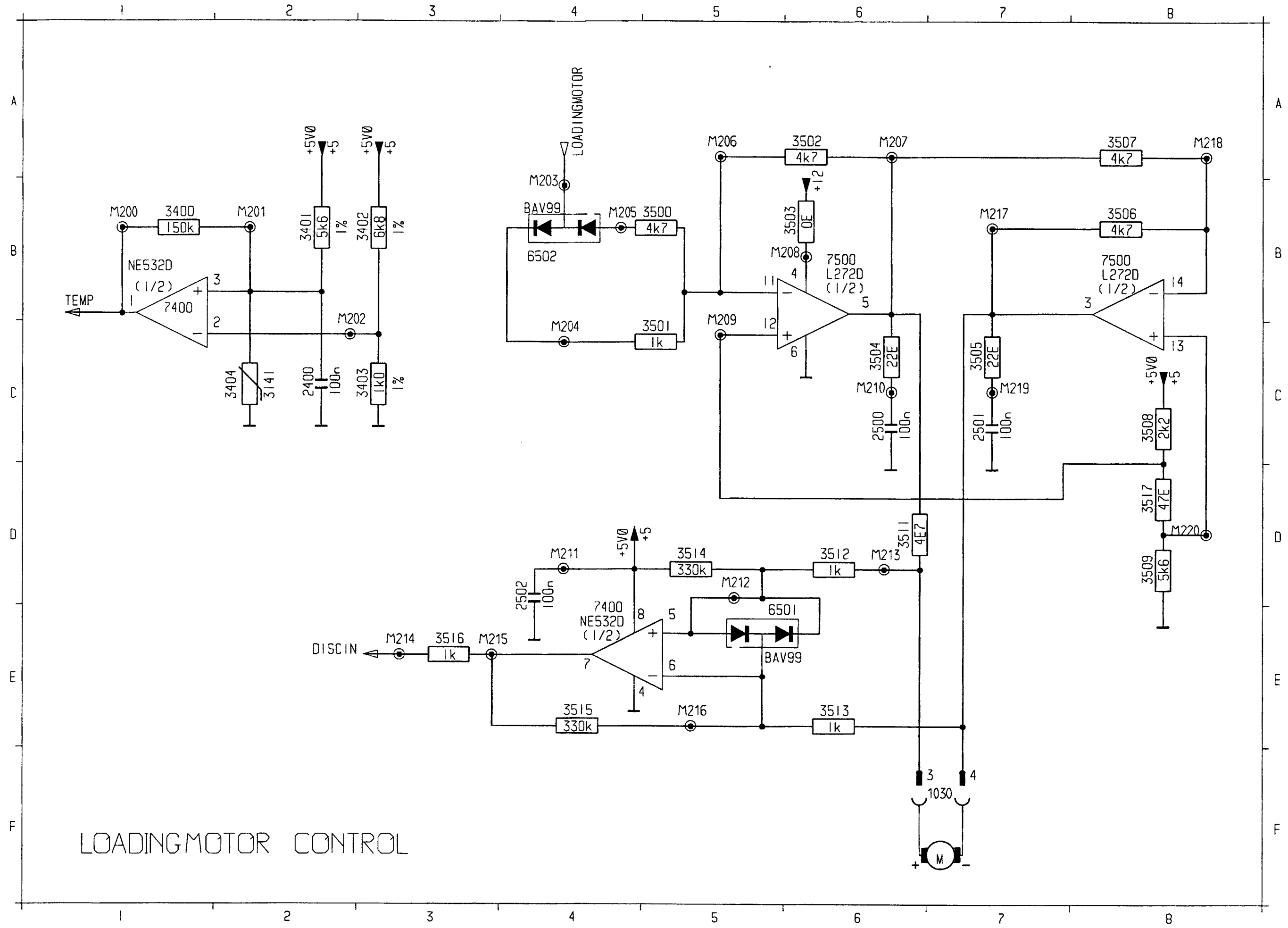
1050	L 5
1300	I 6
2300	C 2
2301	C 2
2302	D 3
2304	E 1
2305	E 2
2306	E 1
2307	F 1
2308	G 2
2309	F11
2311	K 6
2312	I 6
2313	I 6
2314	I 7
2315	H 8
2316	I 8
2317	I 9
2320	F11
2321	F11
2322	E11
2323	E11
2324	E11
2325	I 4
2326	B 7
2327	G12
2328	K 3
2329	K 3
2330	J 5
2332	F11
2333	F14
2334	G14
2335	G14
2336	H14
2337	H11
2338	G11
2339	H11
2340	L 5
2341	L 6
2342	D 3
3300	C 1
3301	C 3
3302	D 4
3303	D 2
3304	F 2
3305	I 4
3307	J 6
3311	H 6
3312	I 3
3313	H 8
3314	H 9
3319	E10
3320	J 3
3321	J 5
3323	F13
3324	F13
3325	G12
3326	G11
3327	H11
3328	H13
3329	H13
3330	F11
3331	H11
3332	L 5
3333	L 6
7302	F 3
7303	C 4
7304	K 6
7304	K 4
7305	I 5
7306	F15
7306	H15
M100	C 2
M101	C 3
M102	D 3
M103	D 4
M104	E 2
M105	E 2
M106	E 2
M107	F 2
M108	F 2
M109	I 3
M110	I 3
M111	K 3
M112	K 3
M113	I 4
M114	J 6
M115	K 5
M116	K 6
M117	J 5
M118	I 6
M119	I 7
M120	I 7
M121	H 7
M122	I 8
M123	H 8
M124	I 8
M125	I 9
M126	H 9
M127	I 9
M128	C 9
M129	C 9
M130	D 9
M131	E10
M132	E10
M133	F10
M134	G10
M135	G10
M136	G11
M137	F12
M138	F13
M139	F14
M140	F15
M141	G11
M142	H11
M143	H12
M144	G13
M145	H14
M146	G15
M147	I 5
M148	L 5
M149	L 6

POS. 7305 BC 858

M147 B: 5,0 V (P) / 4,4 V (S,O)
M118 C: 2,2 V (P) / 5,0 V (S;O)
M113 E: 5,0 V (P,S,O)

POS. 7306 LM 833

M140 1: AF 5,0 V (P) / 5,0 V (S,O)
M140 2: AF 5,0 V (P) / 5,0 V (S,O)
M139 3: AF 5,0 V (P) / 5,0 V (S,O)
4: GND
M145 5: AF 5,0 V (P) / 5,0 V (S,O)
M146 6: AF 5,0 V (P) / 5,0 V (S,O)
M146 7: AF 5,0 V (P) / 5,0 V (S,O)
8: 12,0 V


1
2
3
4
5
6
7
8
A
B
C
D
E
F
TEMP
M200
3400
150k
M201
NE532D
(1/2)
7400
3401
5k6
1%
3402
6k8
+5V0
+5
M202
3404
3141
2400
100n
3403
1k0
LOADINGMOTOR
M203
BAV99
6502
M205
3500
4k7
M204
3501
1k
M206
M209
3502
M207
3503
0E
+12
M208
7500
L272D
11
12
3504
22E
M210
2500
3507
M218
M217
3506
3505
M219
2501
14
13
3508
2k2
3517
47E
M220
3509
5k6
3511
4E7
M211
2502
3514
330k
3512
M213
M212
6501
DISCIN
M214
3516
M215
3515
M216
3513
1030
M

LOADINGMOTOR CONTROL

1030	F	7
2400	C	2
2500	C	6
2501	C	7
2502	D	4
3400	B	1
3401	B	2
3402	B	3
3403	C	3
3404	C	2
3500	B	5
3501	C	5
3502	A	6
3503	B	6
3504	C	6
3505	C	7
3506	B	8
3507	A	8
3508	C	8
3509	D	8
3511	D	6
3512	D	6
3513	E	6
3514	D	5
3515	E	4
3516	E	3
3517	D	8
6501	E	6
6502	B	4
7400	B	1
7400	D	4
7500	B	6
7500	B	8
M200	B	1
M201	B	2
M202	B	2
M203	A	4
M204	C	4
M205	B	4
M206	A	5
M207	A	6
M208	B	5
M209	B	5
M210	C	6
M211	D	4
M212	D	5
M213	D	6
M214	E	3
M215	E	3
M216	E	5
M217	B	7
M218	A	8
M219	C	7
M220	D	8

POS. 6501 BAV 99

M212	1: 3,6 V (P,S,O)
M212	2: 3,6 V (P,S,O)
M216	3: 3,5 V (P,S,O)

POS. 6502 BAV 99

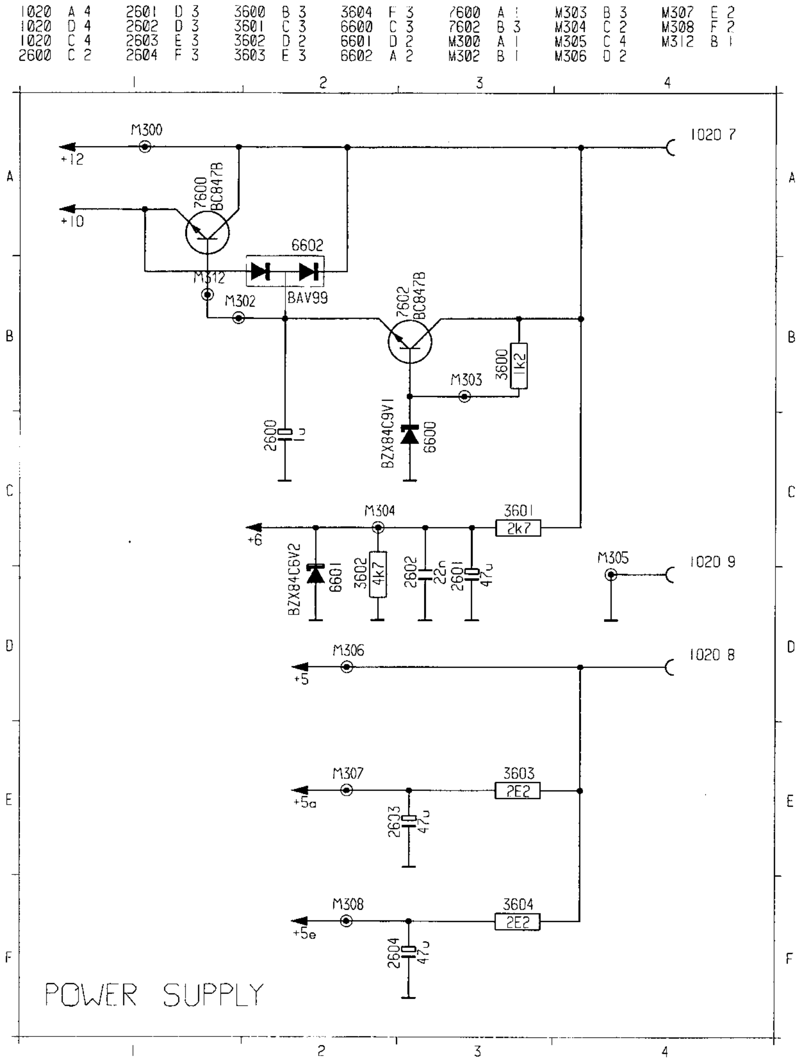
M204	1: 3,6 V (P,S,O) / 4,2 V (LOAD)
M205	2: 3,6 V (P,S,O) / 1,0 V (EJECT)
M203	3: 3,4 V (P,S,O) / 5,0 V (LOAD) / 0,0 V (EJECT)

POS. 7400 NE 532D

M200	1: 3,9 V (P,S,O) / 0,0 V (T 70$C)
M202	2: 0,6 V (P,S,O)
M201	3: 2,3 V (P,S,O)
	4: GND
M212	5: 3,6 V (P,S,O)
M216	6: 3,5 V (P,S,O)
M215	7: 3,8 V (P,S,O) / 0,0 V (LOAD)
M211	8: 5,0 V (P,S,O)

POS. 7500 L 272D

	1: nc
	2: nc
M217	3: 3,5 V (P,S,O) / 6,5 V (LOAD) / 0,5 V (EJECT)
M208	4: 12,0 V (P,S,O)
M207	5: 3,5 V (P,S,O) / 0,5 V (LOAD) / 6,5 V (EJECT)
	6: GND
	7: nc
	8: nc
	9: nc
	10: nc
M206	11: 3,6 V (P,S,O)
M209	12: 3,6 V (P,S,O)
M220	13: 3,6 V (P,S,O)
M218	14: 3,6 V (P,S,O)
	15: nc
	16: nc


1020 A 4
1020 D 4
1020 C 4
2600 C 2
2601 D 3
2602 D 3
2603 E 3
2604 F 3
3600 B 3
3601 C 3
3602 D 2
3603 E 3
3604 F 3
6600 C 3
6601 D 2
6602 A 2
7600 A 1
7602 B 3
M300 A 1
M302 B 1
M303 B 3
M304 C 2
M305 C 4
M306 D 2
M307 E 2
M308 F 2
M312 B 1
M300
+12
1020 7
+10
7600
BC847B
6602
M312
M302
BAV99
7602
BC847B
3600
1k2
M303
BZX84C9V1
6600
2600
1u
M304
3601
2k7
+6
BZX84C6V2
6601
3602
4k7
2602
22n
2601
47u
M305
1020 9
M306
+5
1020 8
M307
3603
2E2
+5a
2603
47u
M308
3604
2E2
+5e
2604
47u
POWER SUPPLY
A
B
C
D
E
F
1
2
3
4

POS. 6602 BAV 99

M300	1: 12,0 V (P,S,O)
	2: 8,4 V (P,S,O)
M302	3: 9,0 V (P,S,O)

POS. 7600 BC 847B

M302	B: 9,0 V (P,S,O)
M300	C: 12,0 V (P,S,O)
	E: 8,4 V (P,S,O)

POS. 7602 BC 847B

M303	B: 9,5 V (P,S,O)
M300	C: 12,0 V (P,S,O)
M302	E: 9,0 V (P,S,O)

POS. 7000 L 272D

	1: nc
	2: nc
M434	3: 2,6 V (P) / 2,4 V (S,O)
M437	4: 12,0 V (P,S,O)
M441	5: 2,4 V (P) / 2,6 V (S,O)
	6: GND
	7: nc
	8: nc
	9: nc
	10: nc
M438	11: 2,5 V (P,S,O)
M439	12: 2,5 V (P,S,O)
M435	13: 2,5 V (P,S,O)
M432	14: 2,5 V (P,S,O)
	15: nc
	16: nc

POS. 7001 TDA 8808T/C3

M426	1: 2,5 V (P) / 0,4 V (S,O)
	2: 4,7 V (P) / 5,0 V (S,O)
M427	3: 2,0 V (P) / 2,5 V (S,O)
M423	4: 2,2 V (P,S,O)
	5: not const. (P) / 0 V (S,O)
M417	6: 2,8 V (P) / 0,0 V (S,O)
M428	7: 0,6 V (P,S,O)
M424	8: 1,3 V (P,S,O)
M418	9: 0,0 V (P,S,O)
M422	10: 4,6 V (P) / 70 mV (S,O)
M413	11: 4,7 V (P) / 5,0 V (S,O)
M421	12: 5,0 V (P) / 0,0 V (S,O)
	13: GND
M429	14: 2,8 V (P) / 3,8 V (S,O)
M420	15: 2,5 V (P,S,O)
M419	16: 2,5 V (P,S,O)
M416	17: 3,4 V (P) / 0 V (S,O)
M415	18: 0,2 V (P) / 0,0 V (S,O)
M414	19: 1,7 V (P) / 4,2 V (S,O)
M409	20: 2,9 V (P) / 3,7 V (S,O)
M408	21: 2,9 V (P) / 3,7 V (S,O)
M404	22: 1,3 V (P) / 0,0 V (S,O)
M403	23: 1,3 V (P) / 0,0 V (S,O)
M405	24: 1,3 V (P) / 0,0 V (S,O)
M406	25: 1,3 V (P) / 0,0 V (S,O)
	26: 1,4 V (P,S,O)
	27: GND
M425	28: 3,2 V (P) / 3,6 V (S,O)

POS. 7003 BC 868

M412	B: 3,5 V (P) / 0 V (S,O)
	C: 3,8 V (P) / 4,7 V (S,O)
M411	E: 2,8 V (P) / 0 V (S,O)

POS. 7100 TCA 0372DP1

M478	1: 6,0 V (P,S,O)
M481	2: 12,0 V (P,S,O)
M480	3: 6,0 V (P,S,O)
	4: GND
M482	5: 6,0 V (P,S,O)
	6: 6,0 V (P,S,O)
	7: 6,0 V (P,S,O)
M464	8: 6,0 V (P,S,O)

POS. 7101 TDA 8809T/C2

	1: 4,7 V (P) / 5,0 V (S,O)
M459	2: sinus 2,5 V (P,S,O)
M460	3: sinus 2,5 V (P,S,O)
M462	4: 0,1 V (P,S,O)
M461	5: 1,3 V (P,S,O)
M444	6: 4,5 V (P,S,O)
M443	7: 2,3 V (P) / 5,0 V (S,O)
M448	8: 0,0 V (P,S,O)
M449	9: 5,0 V (P) / 0,0 V (S,O)
M450	10: 5,0 V (P,S,O)
M451	11: 5,0 V (P,S,O)
	12: 8,4 V (P,S,O)
	13: GND
	14: GND
M453	15: 6,0 V (P,S,O)
M454	16: 2,5 V (P,S,O)
M456	17: 2,5 V (P,S,O)
M455	18: 2,5 V (P,S,O)
M457	19: 2,5 V (P,S,O)
M458	20: 2,5 V (P,S,O)
M442	21: not const. 1,8...2,1 V (P) / 3,7 V (S,O)
M452	22: 1,2 V (P,S,O)
M445	23: not const. (P) / 0,6 V (S,O)
M445	24: not const. (P) / 0,6 V (S,O)
M446	25: 2,6 V (P) / 5,0 V (S,O)
M447	26: 2,0 V (P) / 4,3 V (S,O)
M409	27: 2,9 V (P) / 3,7 V (S,O)
M408	28: 2,9 V (P) / 3,7 V (S,O)

POS. 7102 BC 847B

M487	B: 1,8 V (P) / 3,5 V (S,O)
M488	C: 4,3 V (P) / 3,0 V (S,O)
M490	E: 3,0 V (P,S,O)

POS. 7103 BC 858B

M489	B: 4,3 V (P,S,O)
M486	C: 0,0 V (P) / 5,0 V (S,O)
	E: 5,0 V (P,S,O)

POS. 7200 BC 847B

M472	B: 20 mV (P,S,O)
M473	C: 5,0 V (P,S,O)
	E: GND

POS. 7201 MC 68HC05C8

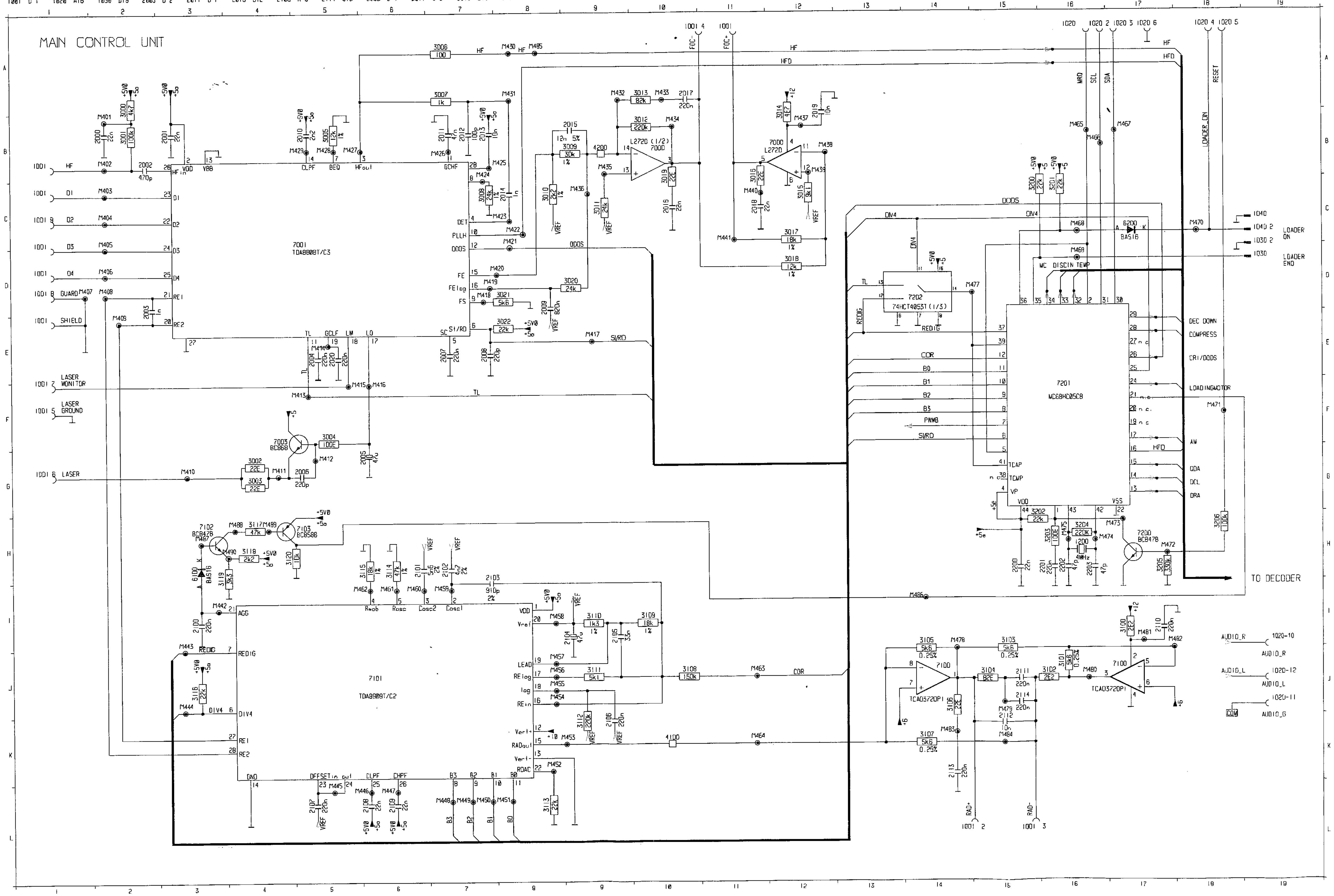
M473	1: 5,0 V (P,S,O)
M465	2: see MRQ (P) / 5,0 V (S,O)
	3: nc
	4: 5,0 V (P,S,O)
M465	5: see MRQ (P) / 5,0 V (S,O)
M417	6: 2,8 V (P) / 0,0 V (S,O)
M110	7: 5,0 V (P,S,O)
M448	8: 0,0 V (P,S,O)
M449	9: 5,0 V (P) / 0,0 V (S,O)
M450	10: 5,0 V (P,S,O)
M451	11: 5,0 V (P,S,O)
M463	12: 2,3 V (P,S,O)
M128	13: see QRA (P) / 40 mV (S,O)
M130	14: see QCL (P) / 5,0 V (S,O)
M129	15: see QDA (P) / 0,0 V (S,O)
M422	16: 3,9 V (P) / 70 mV (S,O)
M117	17: 5,0 V (P,S,O)
	18: nc
	19: nc
	20: nc
M486	21: 0,0 V (P) / 5,0 V (S,O)
	22: GND
	23: nc
M203	24: 3,4 V (P,S,O)
M444	25: 4,5 V (P,S,O)
M421	26: 5,0 V (P) / 0,0 V (S,O)
	27: nc
M532	28: 5,0 V (COMPRESS OFF) / 0,0 V (COMPRESS ON)
M120	29: 0,0 V (P) / 5,0 V (S,O)
M467	30: see SDA (P) / 5,0 V (S,O)
M466	31: see SCL (P) / 5,0 V (S,O)
M200	32: 3,9 V (P,S,O)
M214	33: 3,8 V (P,S,O) / 0,0 V (LOAD)
M109	34: see MC (P) / 70 mV (S,O)
M469	35: 0,0 V (P,S) / 5,0 V (O)
M468	36: 5,0 V (P,S,O)
M443	37: 2,3 V (P) / 5,0 V (S,O)
	38: nc
M477	39: 4,7 V (P) / 5,0 V (S,O)
	40: nc
M477	41: 4,7 V (P) / 5,0 V (S,O)
M474	42: 2,7 V (P,S,O)
M475	43: 2,4 V (P,S,O)
	44: 5,0 V (P,S,O)

1001	A11	1001	C 1	1020	A17	1030	D19	2004	E 5	2012	B 7	2020	E 5
1001	L14	1001	C 1	1020	A18	1040	C19	2005	G 6	2013	B 7	2100	I 3
1001	L15	1001	C 1	1020	A18	1040	C19	2006	G 5	2014	C 8	2101	H 6
1001	A10	1001	D 1	1020	A17	1200	H16	2007	E 7	2015	B 9	2102	H 7
1001	F 1	1001	B 1	1020	I19	2000	B 2	2008	E 7	2016	C10	2103	H 7
1001	G 1	1001	E 1	1020	J19	2001	B 3	2009	D 8	2017	A10	2104	I 9
1001	F 1	1020	A16	1020	J19	2002	B 2	2010	B 5	2018	C11	2105	I 9
1001	D 1	1020	A16	1030	D19	2003	D 2	2011	B 7	2019	B12	2106	K 9

2107	L 5	2200	H15	3004	F 5	3012	B10	3020	D 9	3105	I14	3113	L 8
2108	L 6	2201	H16	3005	B 5	3013	A10	3021	D 8	3106	J14	3114	H 6
2109	L 6	2202	H16	3006	A 7	3014	B12	3022	E 8	3107	K14	3115	H 6
2110	I17	2203	H16	3007	A 7	3015	C12	3100	I17	3108	J10	3116	J 3
2111	J15	3000	A 2	3008	C 7	3016	B11	3101	J16	3109	I10	3117	H 4
2112	K15	3001	B 2	3009	B 9	3017	C12	3102	J16	3110	I 9	3118	H 4
2113	K14	3002	G 4	3010	C 8	3018	D12	3103	I15	3111	J 9	3119	H 3
2114	J15	3003	G 4	3011	C 9	3019	B10	3104	J15	3112	K 9	3120	H 4

3200	C15	4200	B 9	7100	J14	M402	B 2	M410	G 3	M418	D 7	M426	B 7
3201	C16	6100	H 3	7101	J 6	M403	C 2	M411	G 4	M419	D 7	M427	B 5
3202	H15	6200	C17	7102	H 3	M404	C 2	M412	G 5	M420	D 7	M428	B 5
3203	H16	7000	B12	7103	H 5	M405	C 2	M413	F 4	M421	C 8	M429	B 4
3204	H16	7000	B10	7200	H17	M406	D 2	M414	E 5	M422	C 8	M430	A 8
3205	H17	7001	C 5	7201	F16	M407	D 1	M415	F 5	M423	C 7	M431	A 8
3206	H18	7003	F 4	7202	D14	M408	D 2	M416	F 6	M424	B 7	M432	A 9
4100	K10	7100	J17	M401	B 2	M409	E 2	M417	E 9	M425	B 7	M433	A10

M434	B10	M442	I 3	M450	L 7	M458	I 8	M466	B16	M474	H16	M483	K14
M435	B 9	M443	I 3	M451	L 7	M459	I 7	M467	B17	M475	H16	M484	K15
M436	C 9	M444	J 3	M452	K 8	M460	I 6	M468	C16	M477	D14	M485	A 8
M437	B12	M445	L 5	M453	K 8	M461	I 6	M469	D16	M478	I14	M486	I14
M438	B12	M446	L 5	M454	J 8	M462	I 5	M470	C18	M479	J15	M487	H 3
M439	B12	M447	L 6	M455	J 8	M463	J11	M471	F18	M480	J16	M488	H 4
M440	C11	M448	L 7	M456	J 8	M464	K11	M472	H17	M481	I17	M489	H 4
M441	C11	M449	L 7	M457	J 8	M465	B16	M473	H16	M482	I17	M490	H 3


MAIN CONTROL UNIT
7001
TDA8808T/C3
7101
TDA8809T/C2
7201
MC68HC05C8
7202
74HCT4053T (1/3)
7000 L2720 (1/2)
7100 TCA0372DP1
7003 BC868
7102 BC847B
7103 BC858B
7200 BC847B
6100 BAS16
6200 BAS16
1200 4MHz
1001 HF
1001 D1
1001 D2
1001 D3
1001 D4
1001 GUARD
1001 SHIELD
1001 LASER MONITOR
1001 LASER GROUND
1001 LASER
1001 FOC-
1001 FOC+
1001 RAD+
1001 RAD-
1020 MRQ
1020 SCL
1020 SDA
1020 RESET
1020 LOADER_ON
1040 LOADER ON
1030 LOADER END
HF
HFD
DODS
DIV4
TL
REDIG
COR
B0
B1
B2
B3
PWMB
SI/RD
DEC DOWN
COMPRESS
CRI/DODS
LOADINGMOTOR
AM
SDA
SCL
DRA
MC DISCIN TEMP
TO DECODER
AUDIO_R
AUDIO_L
AUDIO_G
1020-10
1020-11
1020-12
VREF
+5V0
+12
1
2
3
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11
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19
A
B
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E
F
G
H
I
J
K
L

POS. 7781 LM 833

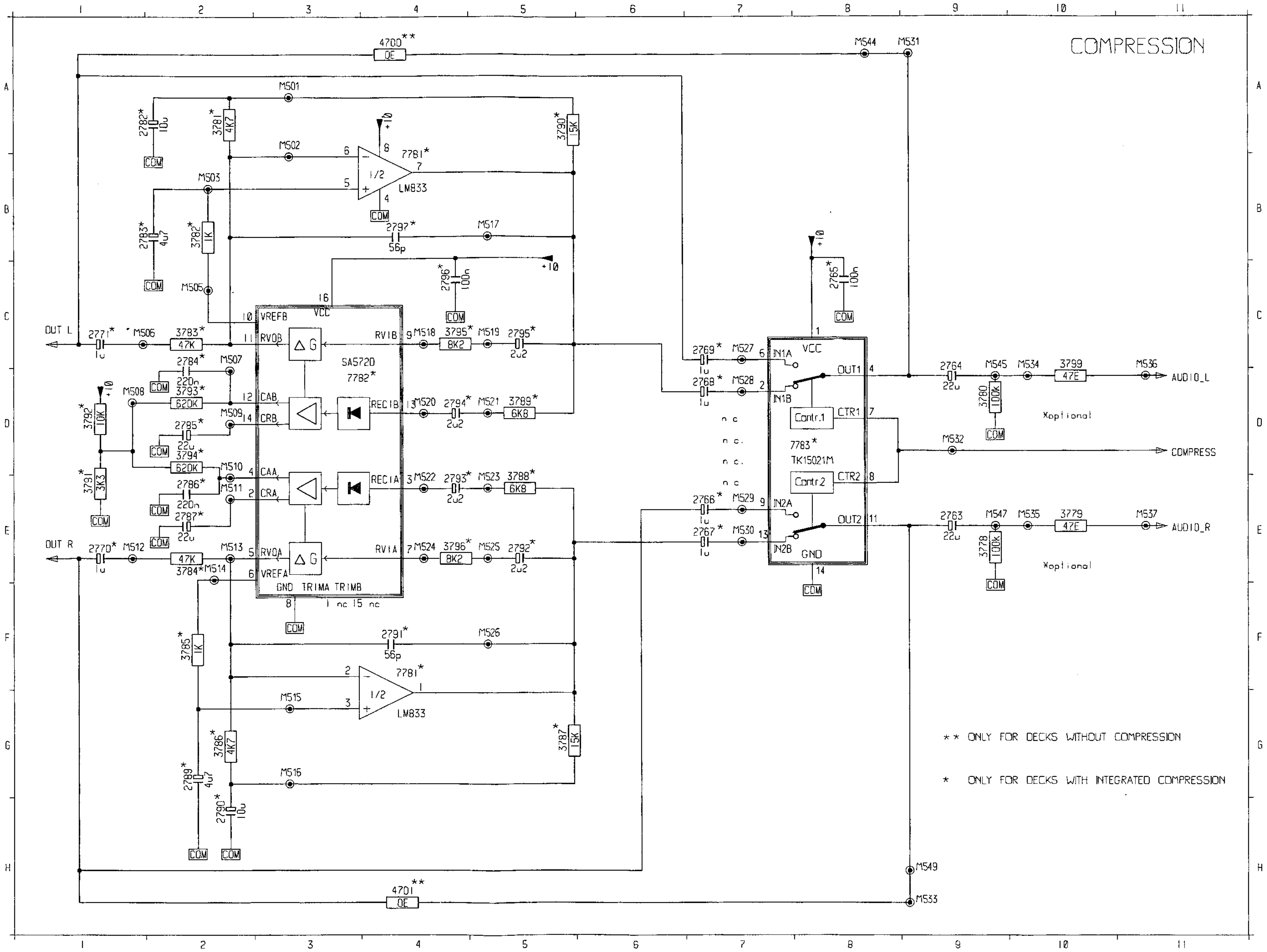
M526	1: 2,5 V (P,S,O)
M513	2: 2,5 V (P,S,O)
M515	3: 2,5 V (P,S,O)
	4: GND
M503	5: 2,5 V (P,S,O)
M502	6: 2,5 V (P,S,O)
M517	7: 2,5 V (P,S,O)
	8: 8,0 V (P,S,O)

POS. 7782 SA 572D

	1: nc
M511	2: AF 1,5 V (P) / 1,1 V (S,O)
M522	3: 2,5 V (P,S,O)
M510	4: AF 1,5 V (P) / 1,1 V (S,O)
M513	5: 2,5 V (P,S,O)
M514	6: 2,5 V (P,S,O)
M524	7: 2,5 V (P,S,O)
	8: GND
M518	9: 2,5 V (P,S,O)
M505	10: 2,5 V (P,S,O)
M502	11: 2,5 V (P,S,O)
M507	12: AF 1,5 V (P) / 1,1 V (S,O)
M520	13: 2,5 V
M509	14: AF 1,5 V (P) / 1,1 V (S,O)
	15: nc
	16: 8,0 V (P,S,O)

POS. 7783 TK 15021M

	1: 8,0 V (P,S,O)
M528	2: 4,0 V (P,S,O)
	3: nc
M531	4: 4,0 V (P,S,O)
	5: nc
M527	6: 4,0 V (P,S,O)
M532	7: 5,0 V (COMPRESS OFF) / 0,0 V (COMPRESS ON)
M532	8: 5,0 V (COMPRESS OFF) / 0,0 V (COMPRESS ON)
M529	9: 4,0 V (P,S,O)
	10: nc
M549	11: 4,0 V (P,S,O)
	12: nc
M530	13: 4,0 V (P,S,O)
	14: GND


COMPRESSION
1
2
3
4
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9
10
11
A
B
C
D
E
F
G
H
4700**
0E
4701**
M544
M531
M501
M502
M503
M505
M506
M507
M508
M509
M510
M511
M512
M513
M514
M515
M516
M517
M518
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M523
M524
M525
M526
M527
M528
M529
M530
M532
M533
M534
M535
M536
M537
M545
M547
M549
7781*
1/2
LM833
7782*
SA5720
VREFB
VCC
RVOB
CAB
CRB
CAA
CRA
RVOA
VREFA
GND TRIMA TRIMB
RV1B
REC1B
REC1A
RV1A
1 nc 15 nc
ΔG
7783*
TK15021M
IN1A
IN1B
IN2A
IN2B
VCC
OUT1
OUT2
CTR1
CTR2
Contr.1
Contr.2
GND
COM
+10
OUT L
OUT R
AUDIO_L
AUDIO_R
COMPRESS
Xoptional
n c
2771*
2770*
2763
2764
2765*
2766*
2767*
2768*
2769*
2782*
2783*
2784*
2785*
2786*
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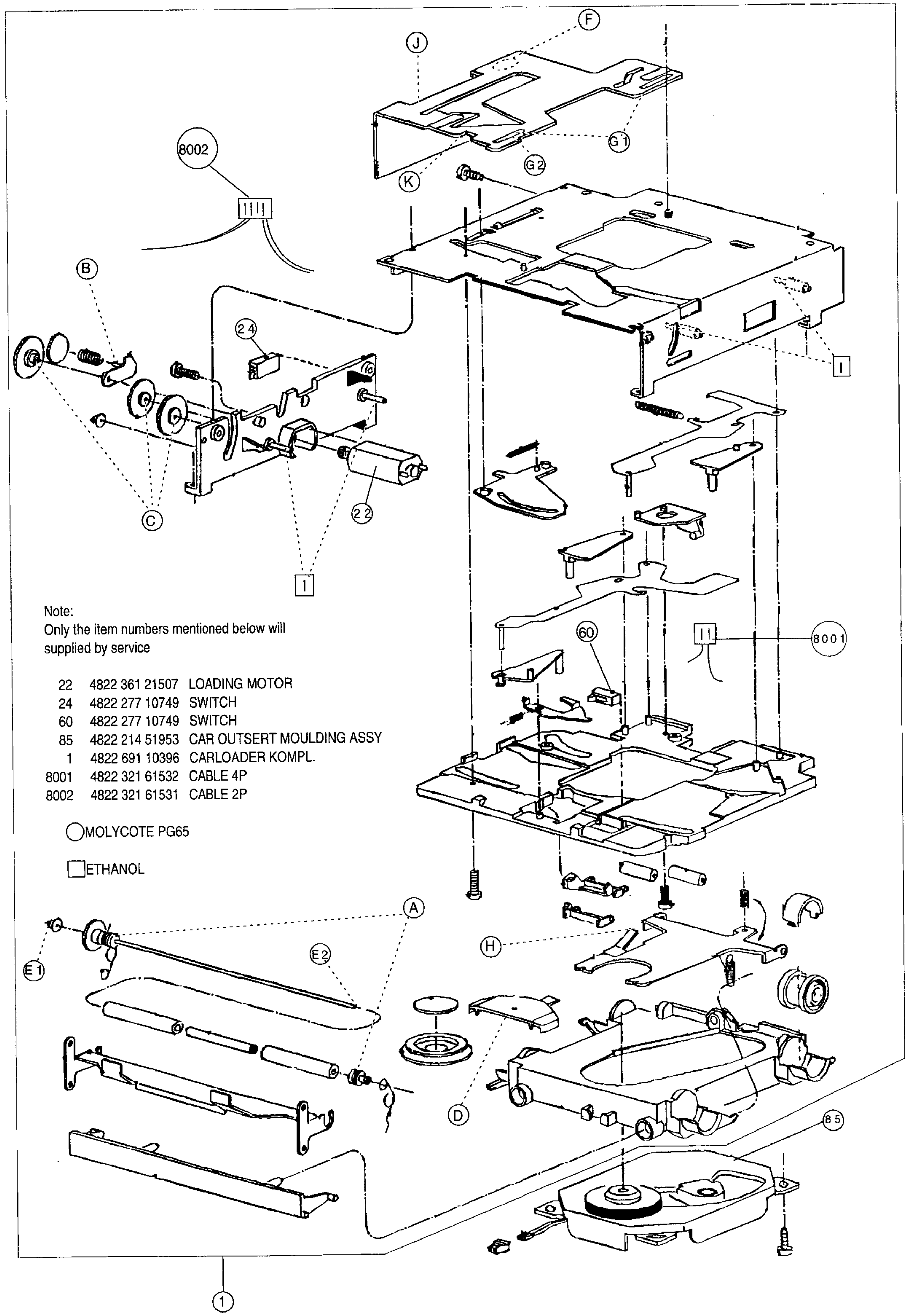
3791*
3792*
3793*
3794*
3795*
3796*
3799
47K
4K7
1K
15K
10K
3K3
620K
8K2
6K8
100K
47E
1u
22u
10u
4u7
100n
220n
56p
2u2
** ONLY FOR DECKS WITHOUT COMPRESSION
* ONLY FOR DECKS WITH INTEGRATED COMPRESSION

2763	E	9
2764	D	9
2765	C	8
2766	E	7
2767	E	7
2768	D	7
2769	C	7
2770	E	1
2771	C	1
2782	A	2
2783	B	2
2784	C	2
2785	D	2
2786	E	2
2787	E	2
2789	G	2
2790	H	2
2791	F	4
2792	E	5
2793	E	4
2794	D	4
2795	C	5
2796	C	4
2797	B	4
3778	E	9
3779	E	10
3780	D	9
3781	A	2
3782	B	2
3783	C	2
3784	E	2
3785	F	2
3786	G	2
3787	G	5
3788	E	5
3789	D	5
3790	A	5
3791	E	1
3792	D	1
3793	D	2
3794	D	2
3795	C	4
3796	E	4
3799	C	10
4700	A	4
4701	H	4
7781	F	4
7781	B	4
7782	D	3
7783	D	7
M501	A	3
M502	A	3
M503	B	2
M505	C	2
M506	C	1
M507	C	2
M508	D	1
M509	D	2
M510	D	2
M511	E	2
M512	E	1
M513	E	2
M514	E	2
M515	G	3
M516	G	3
M517	B	5
M518	C	4
M519	C	5
M520	D	4
M521	D	5
M522	E	4
M523	E	5
M524	E	4
M525	E	5
M526	F	5
M527	C	7
M528	D	7
M529	E	7
M530	E	7
M531	A	8
M532	D	9
M533	H	9
M534	C	10
M535	E	10
M536	C	11
M537	E	11
M544	A	8
M545	C	9
M547	E	9
M549	H	9



Note:
Only the item numbers mentioned below will
supplied by service

22	4822 361 21507	LOADING MOTOR
24	4822 277 10749	SWITCH
60	4822 277 10749	SWITCH
85	4822 214 51953	CAR OUTSERT MOULDING ASSY
1	4822 691 10396	CARLOADER KOMPL.
8001	4822 321 61532	CABLE 4P
8002	4822 321 61531	CABLE 2P

○MOLYCOTE PG65

☐ETHANOL

Mechanical partslist

1	4822 502 11715	M 2,5X5 PAN>STZNBK
2	4822 502 30541	2,2X(PT/PAN+STZN
8 1 1	4822 529 10277	SHOCK ABSORBER
9 1 1	4822 529 10277	SHOCK ABSORBER
10 1 1	4822 529 10277	SHOCK ABSORBER
11 1 1	4822 529 10277	SHOCK ABSORBER
22 1 1	4822 361 21507	MOTOR ASSY
24 1 1	4822 277 10749	SWITCH MUTE
34 1 1	4822 502 12001	M 2 X 4PANZNBK
35 1 1	4822 502 12001	M 2 X 4PANZNBK
36 1 1	4822 502 12001	M 2 X 4PANZNBK
37 1 1	4822 502 12001	M 2 X 4PANZNBK
38 1 1	4822 502 12001	M 2 X 4PANZNBK
39 1 1	4822 502 12001	M 2 X 4PANZNBK
60 1 1	4822 277 10749	SWITCH MUTE
77 1 1	4822 502 12001	M 2 X 4PANZNBK
8001	4822 321 61531	CABLE, 2P
3 8001	4822 267 30871	CONNECTOR 2P.
8002	4822 321 61532	CABLE, 4P
5 8002	4822 267 40672	DISC 4POL.
81 1	4822 691 30275	MECH UNITCDM-9
8 81 1	4822 701 10425	M 2 X10T/PANZNBK
9 81 1	4822 701 10425	M 2 X10T/PANZNBK

LUBRICATING INSTRUCTIONS

Car loader

* A) The roller spindle (pos 28) : 2 x on diameter 2,5 mm.
(On the bearing points)
* B) The spindle of the swing bracke (all lenght).
* C) The spindles of the gearwheels (3 x all lenght).
* D) The pivot bearing of the pivot cover (pos 69)
(in the middle of the closing plate)
* E) E1The roller spindle on the top on diameter 1,2 mm
E2The metal pin on the motorplate assy (pos 15)
(Diameter 1,2 mm).
* F) The sliding surface on the top control bracket (pos 73)
in which the plastic pen of the motorplate assy is guiding.
* G) G1The guiding grooves (2 x) on the control bracket in
which the guide pins of the chassis are guiding.
G2The tag on the control bracket which actuate the switch brackets.
* H) The tag on the pressure plate (pos 66).
# I) The suspension pins (2 x) of the chassis.
The suspension pins (2 x) of the motorplate assy.
* J) The teeth of the control bracket.
* K) On the control bracket the sliding surface of the detection bracket.

* MOLYCOTE PG 65/Q5-7565 code nr. 1304 501 0841

# ETHANOL code nr. 1322 506 35201

Capacitors

2000	5322 122 32654	22NF10%X7R 63V
2001	5322 122 32654	22NF10%X7R 63V
2002	5322 122 32268	470PF 10% 50V
2003	4822 122 31746	1000PF 2%NP0 63V
2004	4822 122 32916	220NF10%X7R 63V
2005	4822 124 22646	47UF20% 16V
2006	4822 122 33584	220PF 5%
2007	4822 122 32916	220NF10%X7R 63V
2008	4822 122 33584	220PF 5%
2009	4822 121 51436	820NF10% 63V
2010	5322 122 33816	2200PF 2%NP0 63V
2011	4822 122 32542	47NF10%X7R 63V
2012	5322 122 32531	100PF 5%NP0 50V
2013	4822 122 33177	10NF 20% X7R 50V
2014	4822 122 31746	1000PF 2%NP0 63V
2015	4822 126 12104	12NF 5%
2016	5322 122 32654	22NF10%X7R 63V
2017	4822 126 12106	220NF 5%
2018	5322 122 32654	22NF10%X7R 63V
2019	4822 122 33177	10NF 20% X7R 50V
2020	4822 122 32916	220NF10%X7R 63V
2100	4822 122 32916	220NF10%X7R 63V
2101	4822 121 51361	5,6NF 2% 160V
2102	4822 121 51051	4.7NF 1% 160V
2103	4822 121 51262	910PF 1% 400V
2104	4822 124 22646	47UF20% 16V
2105	4822 126 12105	33NF 5%
2106	4822 122 32916	220NF10%X7R 63V
2107	4822 122 32916	220NF10%X7R 63V
2108	5322 122 32654	22NF10%X7R 63V
2109	5322 122 32654	22NF10%X7R 63V
2110	4822 122 32916	220NF10%X7R 63V
2111	4822 122 32916	220NF10%X7R 63V
2112	4822 122 33177	10NF 20% X7R 50V
2113	4822 122 32916	220NF10%X7R 63V
2114	4822 122 32916	220NF10%X7R 63V
2200	5322 122 32654	22NF10%X7R 63V
2201	4822 122 32916	220NF10%X7R 63V
2202	5322 122 32452	47PF 5%NP0 63V
2203	5322 122 32452	47PF 5%NP0 63V
2300	5322 122 33816	2200PF 2%NP0 63V
2301	5322 122 32452	47PF 5%NP0 63V
2302	4822 122 32916	220NF10%X7R 63V
2304	4822 122 33496	100NF10%X7R 63V
2305	4822 124 80453	100UF 20% 10V
2306	5322 122 32654	22NF10%X7R 63V
2307	4822 122 33584	220PF 5%
2308	4822 122 33496	100NF10%X7R 63V
2309	4822 124 23582	220UF 20% 10V
2311	4822 122 32916	220NF10%X7R 63V
2312	5322 122 32658	22PF 5% 50V
2313	5322 122 32658	22PF 5% 50V
2314	5322 122 32658	22PF 5% 50V
2315	4822 124 80109	0.22UF20% 50V
2316	5322 126 10223	4,7NF 5% XR7
2317	2222 580 16523	4,7NF 5% XR7
2320	4822 124 23582	220UF 20% 10V
2321	4822 122 33496	100NF10%X7R 63V
2322	4822 122 33496	100NF10%X7R 63V
2323	4822 122 33496	100NF10%X7R 63V
2324	4822 124 80453	100UF 20% 10V
2325	4822 124 22646	47UF20% 16V
2326	4822 122 32916	220NF10%X7R 63V
2327	4822 124 23279	22UF20% 16V
2328	5322 122 32654	22NF10%X7R 63V
2329	5322 122 32654	22NF10%X7R 63V
2331	4822 122 32916	220NF10%X7R 63V
2332	4822 124 11353	1UF 20% 16V
2333	5322 122 32268	470PF 10% 50V
2334	5322 122 32531	100PF 5%NP0 50V
2335	5322 122 32268	470PF 10% 50V
2336	5322 122 32531	100PF 5%NP0 50V
2337	4822 124 11353	1UF 20% 16V
2338	4822 122 33175	2,2NF 20% X7R 50V
2339	4822 122 33175	2,2NF 20% X7R 50V
2340	4822 122 33496	100NF10%X7R 63V
2341	4822 122 33496	100NF10%X7R 63V
2342	4822 122 33496	100NF10%X7R 63V
2400	4822 122 33496	100NF10%X7R 63V
2500	4822 122 33496	100NF10%X7R 63V
2501	4822 122 33496	100NF10%X7R 63V
2502	4822 122 33496	100NF10%X7R 63V
2600	4822 124 23282	1UF20% 50V
2601	4822 124 22646	47UF20% 16V
2602	5322 122 32654	22NF10%X7R 63V
2603	4822 124 22646	47UF20% 16V
2604	4822 124 22646	47UF20% 16V
2763	4822 124 23279	22UF20% 16V
2764	4822 124 23279	22UF20% 16V

Resistors

3000	4822 051 20472	4K70 5% 0,1W
3001	4822 051 20104	100K00 5% 0,1W
3002	4822 051 20229	22R00 5% 0,1W
3003	4822 051 20229	22R00 5% 0,1W
3004	4822 051 20101	100R00 5% 0,1W
3005	4822 051 51203	12K00 1% 0,125W
3006	4822 051 20101	100R00 5% 0,1W
3007	4822 051 20102	1K00 5% 0,1W
3008	4822 051 52403	24K00 1% 0,125W
3009	4822 051 53003	30K00 1% 0,125W
3010	4822 051 10222	2K20 2% 0,25W
3011	4822 051 20243	24K00 5% 0,1W
3012	4822 051 20224	220K00 5% 0,1W
3013	4822 051 20823	82K00 5% 0,1W
3014	4822 051 20478	4R70 5% 0,1W
3015	4822 051 20912	9K10 5% 0,1W
3016	4822 051 20229	22R00 5% 0,1W
3017	4822 051 51803	18K00 1% 0,125W
3018	4822 051 51203	12K00 1% 0,125W
3019	4822 051 20229	22R00 5% 0,1W
3020	4822 051 20243	24K00 5% 0,1W
3021	4822 051 20562	5K60 5% 0,1W
3022	4822 051 20223	22K00 5% 0,1W
3100	4822 051 10228	2R20 5% 0,25W
3101	4822 116 83634	5K6 0,25% 0.25W
3102	4822 050 22208	2R20 1% 0,6W
3103	4822 116 83634	5K6 0,25% 0.25W
3104	4822 051 10829	82R00 2% 0,25W
3105	4822 116 83634	5K6 0,25% 0.25W
3106	4822 051 20229	22R00 5% 0,1W
3107	4822 116 83634	5K6 0,25% 0.25W
3108	4822 051 20154	150K00 5% 0,1W
3109	4822 051 51803	18K00 1% 0,125W
3110	4822 051 51302	1K30 1% 0,125W
3111	4822 051 20512	5K10 5% 0,1W
3112	4822 051 20224	220K00 5% 0,1W
3113	4822 051 20223	22K00 5% 0,1W
3114	4822 051 54703	47K00 1% 0,125W
3115	4822 051 51803	18K00 1% 0,125W
3116	4822 051 20223	22K00 5% 0,1W
3117	4822 051 20473	47K00 5% 0,1W
3118	4822 051 20222	2K20 5% 0,1W
3119	4822 051 20332	3K30 5% 0,1W
3120	4822 051 20103	10K00 5% 0,1W
3200	4822 051 20223	22K00 5% 0,1W
3201	4822 051 20223	22K00 5% 0,1W
3202	4822 051 20223	22K00 5% 0,1W
3203	4822 051 20101	100R00 5% 0,1W
3204	4822 051 20224	220K00 5% 0,1W
3205	4822 051 20334	330K00 5% 0,1W
3206	4822 051 20104	100K00 5% 0,1W
3300	4822 051 20222	2K20 5% 0,1W
3301	4822 051 20223	22K00 5% 0,1W
3302	4822 051 20223	22K00 5% 0,1W
3303	4822 051 20478	4R70 5% 0,1W
3304	4822 051 20222	2K20 5% 0,1W
3305	4822 051 20008	0R00 5% 0,1W
3307	4822 051 10228	2R20 5% 0,25W
3311	4822 051 20224	220K00 5% 0,1W
3312	4822 051 20473	47K00 5% 0,1W
3313	4822 051 20182	1K80 5% 0,1W
3314	4822 051 20182	1K80 5% 0,1W
3319	4822 051 20229	22R00 5% 0,1W
3320	4822 051 20473	47K00 5% 0,1W
3321	4822 051 20104	100K00 5% 0,1W
3323	4822 051 53003	30K00 1% 0,125W
3324	4822 051 53003	30K00 1% 0,125W
3325	4822 051 20103	10K00 5% 0,1W
3326	4822 051 20104	100K00 5% 0,1W
3327	4822 051 20104	100K00 5% 0,1W
3328	4822 051 53003	30K00 1% 0,125W
3329	4822 051 53003	30K00 1% 0,125W
3330	4822 051 20102	1K00 5% 0,1W
3331	4822 051 20102	1K00 5% 0,1W
3332	4822 051 20229	22R00 5% 0,1W
3333	4822 051 20229	22R00 5% 0,1W
3400	4822 051 20154	150K00 5% 0,1W
3401	4822 051 10562	5K60 2% 0,25W
3402	4822 051 10682	6K80 2% 0,25W
3403	4822 051 10102	1K00 2% 0,25W
3404	4822 116 30426	4K7 3% 0.1W
3500	4822 051 20472	4K70 5% 0,1W
3501	4822 051 20102	1K00 5% 0,1W
3502	4822 051 20472	4K70 5% 0,1W
3503	4822 051 10008	0R00 5% 0,25W
3504	4822 051 20229	22R00 5% 0,1W
3505	4822 051 20229	22R00 5% 0,1W
3506	4822 051 20472	4K70 5% 0,1W
3507	4822 051 20472	4K70 5% 0,1W
3508	4822 051 20222	2K20 5% 0,1W
3509	4822 051 20562	5K60 5% 0,1W
3511	4822 051 20478	4R70 5% 0,1W
3512	4822 051 20102	1K00 5% 0,1W
3513	4822 051 20102	1K00 5% 0,1W
3514	4822 051 20334	330K00 5% 0,1W
3515	4822 051 20334	330K00 5% 0,1W
3516	4822 051 20102	1K00 5% 0,1W
3517	4822 051 20479	47R00 5% 0,1W
3600	4822 051 20122	1K20 5% 0,1W
3601	4822 051 20272	2K70 5% 0,1W
3602	4822 051 20472	4K70 5% 0,1W
3603	4822 051 10228	2R20 5% 0,25W
3604	4822 051 10228	2R20 5% 0,25W
3778	4822 051 20104	100K00 5% 0,1W
3779	4822 051 20479	47R00 5% 0,1W
3780	4822 051 20104	100K00 5% 0,1W
3799	4822 051 20479	47R00 5% 0,1W
4100	4822 051 20008	0R00 5% 0,1W
4200	4822 051 20008	0R00 5% 0,1W
4700	4822 051 20008	0R00 5% 0,1W
4701	4822 051 20008	0R00 5% 0,1W

Diods

6100	5322 130 31928	BAS16
6200	5322 130 31928	BAS16
6501	5322 130 34337	BAV99
6502	5322 130 34337	BAV99
6600	4822 130 33996	BZX84-C9V1
6601	5322 130 33671	BZX84-C6V2
6602	5322 130 34337	BAV99

IC's

7000	4822 209 31131	L272D
7001	4822 209 73234	TDA8808T/C3
7003	5322 130 61569	BC868
7100	4822 209 62059	TCA0372DP1
7101	4822 209 31973	TDA8809T/C2/S1/13
7102	4822 130 60511	BC847B
7103	5322 130 41983	BC858B
7200	4822 130 60511	BC847B
7201	4822 209 32153	MC68HC705C8CFN-CDM9V06
7202	5322 209 14481	HEF4053BT
7302	4822 209 30388	SAA7341GP
7303	4822 209 31553	HY6264ALJ-10
7304	4822 209 31131	L272D
7305	5322 130 41983	BC858B
7306	4822 209 30095	LM833D
7400	4822 209 30510	LM 2904D
7500	4822 209 31131	L272D
7600	4822 130 60511	BC847B
7602	4822 130 60511	BC847B

Miscellaneous

1001	4822 267 50838	14 PIN
1001	4822 214 52063	PCB CDM9-MOD-4
1020	4822 265 41209	12P
1030	4822 265 30957	4P
1040	4822 265 30956	2P
1050	4822 265 30958	2P
1200	4822 242 70831	CSA 4,00MG
1300	4822 242 81414	16,934MHZ
1002	4822 691 10366	
1 1002	4822 691 10396	CARLOADER
1003	4822 267 51146	12 PIN GOLD
2001	4822 122 33496	100NF 10% XR7 63V